

AD-A150 702 SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
MIDWAY ISLAND(U) NAVAL OCEANOGRAPHY COMMAND DETACHMENT  
ASHEVILLE NC AUG 84

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MIDWAY ISLAND(U) NAVAL OCEANOGRAPHY COMMAND DETACHMENT  
ASHEVILLE NC AUG 84

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AD-A150 702

# SMOS

## SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

STATION: #22701 Midway Island

PERIOD: HOURLY 1/73-12/82  
DAILY 1/49-12/82

JOB NO. 72006

DATE August 1984

PREPARED BY  
NAVAL OCEANOGRAPHY  
COMMAND DETACHMENT,  
FEDERAL BUILDING  
ASHEVILLE, N.C. 28801

PREPARED FOR  
COMMANDER,  
NAVAL OCEANOGRAPHY  
COMMAND  
NSTL MS 39529





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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Summary of Meteorological Observations, Surface (SMOS) Midway Island		5. TYPE OF REPORT & PERIOD COVERED Reference Report 1973-1982
7. AUTHOR(s) NA		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS Naval Oceanography Command Detachment Federal Building Asheville, NC 28801		8. CONTRACT OR GRANT NUMBER(s)
11. CONTROLLING OFFICE NAME AND ADDRESS Commanding Officer Naval Oceanography Command Facility NSTL, MS 39529-5002		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, station pressure, extreme temperatures, sea level pressure, daily temperature, weather conditions, monthly climatology, coastal region, snow depth, and cloud cover		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure		

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## SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This update includes the period of record (POR) 1973 through 1982, with all available data through 1982 for extreme values.

This summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of "0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Oceanography Command Detachment (NOCD), Asheville, N.C. welcomes your comment and criticisms.



STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV (FT)	CALL SIGN	WMO NUMBER
22701	Midway Island	28°12'N	177°23'W	13	PMDY	91066

### STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			STATION (FT)	TYPE BAROMETER	
1.	Weather service office on top of command post building	Navy	1949	1958	28°12'N	177°23'W	42.4	Mercurial	24
2.	Same as above	"	1958	1961	"	"	32	"	24
3.	Weather office	"	1961		"	"	34	"	24
1a.	GMQ-14 console	"	1972		"	"	34		

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Atop building #521	Selsyn	Double register	91'MSL	1. Barograph (marine)
2.	Relocated	Atop building #585	"	"	82'MSL	2. Automatic met. sta. (GMQ-29A)
3.	Installed 1954 1955	Atop building #581	AN/UMQ-5	RD-108	72'MSL	3. Ceiling light (ML-121)
4.	1958	Air operations hangar roof	"	RD-108B	93'MSL	4. Radiosonde/Rawinsonde set (GMD-1B)
5.	1960	2051' S. weather office	AN/UMQ-5C	"	15'	5. APT System (AN/GKR-7)

NOCD, Federal Building  
Asheville, N.C.



NOCOD, Federal Building  
Asheville, N. C.

## PART A

## WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.



Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.



## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than  $5/8$  mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.



# WEATHER CONDITIONS

## ATMOSPHERIC PHENOMENA

STATION: MIDWAY ISLAND STATION NAME: 41-40 YEARS: ALL MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	1114	1.9	73.7			.1	73.8	2.8	3.3		.1	6.1	932
FEB		.8	56.7				56.7	3.4	3.2			5.9	935
MAR		1.0	59.2				59.2	3.9	4.7			8.2	941
APR		1.6	55.5			.1	55.5	2.5	2.7			4.5	933
MAY		1.1	49.4				49.4	2.2	2.5			4.4	960
JUN		1.1	50.3				50.3	2.2	1.2			2.7	901
JUL		4.8	69.1				69.1	.2	.3			.5	935
AUG		4.0	63.4				63.4	.2	.4			.6	930
SEP		3.3	64.3				64.3	.3	.4			.7	950
OCT		2.8	63.3				63.3	.3	.5			1.4	961
NOV		2.7	67.5				67.5	2.2	2.			3.4	935
DEC		1.0	64.2			.1	64.2	2.6	2.3			4.5	959
TOTALS		2.2	62.6			.0	62.6	1.9	2.		.0	3.6	11170

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# WEATHER CONDITIONS

2721 HIGHWAY ISLAND 73-92 JAN  
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	01		17.3				17.3	.7	.3			1.4	280
	04		11.7				11.7	1.0				1.0	170
	07	.3	11.9				11.9		.3			.3	71
	10		12.3				12.3	.6	1.3			1.9	310
	13		8.1				8.1		2.6			2.9	710
	16		8.9				8.9	.4	.7			1.8	200
	19		9.3				9.3		.7			2.1	200
	22	.5	11.7				11.7					1.0	196
TOTALS		.1	11.4				11.4	.3	.7			1.7	2171

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# WEATHER CONDITIONS

STATION NAME: MIDWAY ISLAND YEARS: 73-80

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	01		1.8				9.8	2.3				2.7	250
	04		7.2				9.2	1.2				1.2	147
	07		9.2				9.2	2.1	.4			2.1	212
	10		10.6				10.6	.7	1.4		.7	2.8	292
	13		7.4				7.4	1.1	1.4		.4	2.9	292
	16		4.6				4.6	.4	1.8		.4	3.2	282
	19		9.7				9.7	1.4	2.2		.4	3.9	270
	22		9.3				9.3	1.2	.6			1.0	161
TOTALS			8.6				9.6	1.4	1.9		.2	2.6	1981

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# WEATHER CONDITIONS

2701  
STATION

MIDWAY ISLAND  
STATION NAME

73-27  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	01	.7	10.3				10.3	1.4	.3		.3	2.1	201
	04		8.6				8.6	2.2	.5		.5	2.2	196
	07		5.3				5.3	3.5	.5			2.9	210
	10		8.4				8.4	1.9	1.3		.3	2.2	210
	13		9.2				9.2	1.3	1.0		.3	2.6	210
	16		6.5				6.5	1.3	1.3		.3	2.9	210
	19		6.6				6.6	1.3	.6		.3	2.6	210
	22		7.5				7.5	1.6			.3	2.7	186
TOTALS		.1	7.9				7.9	1.9	.7		.3	3.0	2213

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# WEATHER CONDITIONS

STATION 37731 MIDWAY ISLAND STATION NAME 12-82 YEARS APR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	01		7.3				7.3	1.3	.3			1.3	300
	04		5.7				5.7	.6				.6	181
	07		5.6				5.6	.7	.3			1.0	300
	10		6.3				6.3		.3			.3	300
	13		4.0				4.0	.3	.3			.7	300
	16		4.0				4.0	.3	.3			.7	300
	19		5.0				5.0		.7			.7	300
	22		8.8				8.8		1.1			1.1	181
TOTALS			5.7				5.7	.4	.4			.8	2162

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# WEATHER CONDITIONS

STATION 12701 MIDWAY ISLAND STATION NAME 73-82 YEARS MAY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIR	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	01		6.4				6.2	.3	.3			.6	319
	04		5.4				5.1	2.2				2.2	134
	07		8.4				8.4	.6	.3			1.0	310
	10		3.9				3.9	.6	.6			1.3	317
	13		4.8				4.8	.3	1.9		.3	2.6	710
	16		3.9				3.9	.6	1.3			1.9	310
	19		5.5				5.5	.3	.6			1.0	310
	22	.5	7.0				7.0	1.1				1.1	146
TOTALS		.1	5.7				5.7	.8	.6		.0	1.5	2231

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401 2076 54321

# WEATHER CONDITIONS

22701  
STATION

MIDWAY ISLAND  
STATION NAME

73-82  
YEARS

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	01		4.7				4.7	1.0				1.0	300
	04		7.2				7.2	.6				.6	180
	07	.3	6.0				6.3	1.3	.7			2.0	299
	10		4.0				4.0					.3	300
	13		4.0				4.0	.7				1.0	300
	16		3.3				3.3						300
	19		4.7				4.7						299
	22		3.3				3.3	.6	.6			1.1	180
TOTALS		.3	4.7				4.7	.5	.2			.8	2152

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# WEATHER CONDITIONS

22701  
STATION

MIDWAY ISLAND  
STATION NAME

73-82  
YEARS

JUL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	01	1.0	2.3				2.3	.3				.3	310
	04	.5	4.3				4.3	.5				.5	186
	07		4.5				4.5						310
	10	.6	4.5				4.5		.3			.6	310
	13		4.2				4.2		1.0			1.3	310
	16		3.2				3.2						310
	19		2.9				2.9						310
	22		3.2				3.2						186
TOTALS		.3	3.6				3.6	.1	.2			.3	2232

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# WEATHER CONDITIONS

STATION 22701 MIDWAY ISLAND STATION NAME 73-P2 YEARS AUG NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	01	.6	5.3				5.6						700
	04		5.3				5.3						190
	07	.6	7.8				7.8						300
	10	.3	4.5				4.5						300
	13		2.3				2.3		.6			.6	359
	16		2.9				2.9		.6			.6	329
	19		3.9				3.9						307
	22		4.7				4.7						191
TOTALS		.2	4.7				4.7		.2			.2	2233

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# WEATHER CONDITIONS

227.1 STATION MIDWAY ISLAND 73-82 YEARS SEP MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	01		4.0				4.0		.3			.3	300
	04		4.4				4.4						151
	07		6.3				6.3						300
	10		6.3				6.3	.7	.3			1.0	300
	13		7.7				7.7	.3				.3	300
	16	.3	3.3				3.3						300
	19	.7	4.0				4.0						300
	22	1.1	3.3				3.3						183
TOTALS		.3	4.9				4.9	.1	.1			.2	2166

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# WEATHER CONDITIONS

12701  
STATION

MIDWAY ISLAND  
STATION NAME

73-82  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	01		5.3				5.8	.3	1.0			1.3	310
	04		7.4				7.4		1.5			1.5	202
	07	.6	5.2				5.2	.6	.6			1.3	310
	10	.6	3.5				3.5	.3	.6			1.0	310
	13	.3	5.2				5.2	.3				.3	310
	16	1.0	6.5				6.5		.3			.3	300
	19		4.5				4.5	1.0	.3			1.3	305
	22		6.0				6.0	.5	.5			1.0	220
TOTALS		.3	5.5				5.5	.4	.6			1.0	2250

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# WEATHER CONDITIONS

STATION 2201 MIDWAY ISLAND STATION NAME 73-82 YEARS NOV MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	01	.3	6.0				6.0	.7				.7	300
	04		7.7				7.7	.6				.6	181
	07		10.3				10.3	1.0				1.0	300
	10		8.7				8.7	1.0	.7			1.7	300
	13	.3	10.0				10.0	1.0	1.0			2.0	300
	16	.3	8.3				8.3	1.0	2.0			3.0	300
	19	.3	7.3				7.3	1.0	1.3			2.3	300
	22		9.4				9.4	.6				.6	181
TOTALS		.2	8.5				8.5	.9	.6			1.5	2162

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101 2096 54321

# WEATHER CONDITIONS

20701 MIDWAY ISLAND 73-82 DEC  
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	01		8.1				8.1	1.2	.3			1.3	208
	04		9.8				9.8		.5			.5	194
	07		9.4				9.4	.6				.6	308
	10		12.0				12.0	1.6	1.9			3.6	309
	13		8.8				8.8	1.6	2.0			4.2	307
	16	.3	8.4				8.4	1.3	1.3			2.9	308
	19	.3	7.5				7.5	1.3	1.3			2.6	308
	22		10.3				10.3						195
TOTALS		.1	9.3				9.3	.9	.9			2.0	2236

NAVWEASERVCOM



# WEATHER CONDITIONS

22701  
STATION

MIDWAY ISLAND  
STATION NAME

77-82  
YEARS

ALL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL	.1	11.4				11.4	.3	.7			1.7	2171
FEB			8.6				8.6	1.4	1.0		.2	2.6	1981
MAR		.1	7.9				7.9	1.9	.7		.3	3.0	2213
APR			5.7				5.7	.4	.4			.8	2162
MAY		.1	5.7				5.7	.8	.6		.0	1.5	2231
JUN		.0	4.7				4.7	.5	.2			.8	2158
JUL		.3	3.6				3.6	.1	.2			.3	2232
AUG		.2	4.7				4.7		.2			.2	2233
SEP		.3	4.9				4.9	.1	.1			.2	2166
OCT		.3	5.5				5.5	.4	.6			1.0	2256
NOV		.2	8.5				8.5	.9	.6			1.5	2162
DEC		.1	9.3				9.3	.9	.9			2.0	2236
TOTALS		.1	6.7				6.7	.6	.5		.0	1.3	26204

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3

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

02701

MIDWAY ISLAND

JANUARY 1973-DECEMBER 1982

JANUARY

STATION

STATION NAME

YEARS

MONTH

HOURS - L.S.T.

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.7	8.8									.9			88.6
NNE	5.0	3.8	2.5											88.8
NE	3.0	6.1												90.9
ENE	1.7	5.1												93.2
E	1.3	1.3												97.4
ESE	3.5	1.7							1.7					88.1
SE	6.7	3.3	1.7								3.3			85.0
SSE	8.5	6.1							1.2		1.2			82.9
S	6.3	5.0	.6						.6		1.3			84.9
SSW	3.8	6.6							.5		1.1			88.5
SW	2.1	5.8							.5		1.6			89.4
WSW	6.7	11.7	1.4								2.1			77.2
W	4.5	11.0	.4					.4	.4		.8			82.5
WNW	1.4	10.4												87.2
NW	3.2	6.0						.5			.9			88.5
NNW	3.4	5.4	.7						.7					90.6
VARIABLE														
CALM	1.1	5.4	2.2											81.3
TOTAL	84	152	10					2	7		18			1892
% TOTAL	3.9	7.0	.5					.1	.3		.8			87.1

TOTAL NUMBER OF OBSERVATIONS

2,171

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

12771

MIDWAY ISLAND

JANUARY 1973-DECEMBER 1982

FEBRUARY

WIND DIRECTION	RAIN	PAN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	5.0	4.0	2.0						1.0		1.0			88.7
NNE	.9	12.1												87.1
NE	4.6	5.5												89.0
ENE	7.7	9.0	5.1							1.3				75.6
E	2.6	5.1												91.5
ESE	4.1	4.1							1.0					90.7
SE	1.4	5.4	1.4								5.4			86.5
SSE	1.3	2.7							2.0		1.3			88.0
S	.5	5.5	1.1						1.6	.5	3.3			89.0
SSW	3.5	1.4							2.1	.7				92.2
SW	2.6	4.0							2.6		1.3		.7	88.7
WSW	5.7	3.8							1.9		2.8			85.8
W	3.6	3.6	.5						.5		1.5		1.5	88.8
WNW	2.2	5.9	.7										.7	90.4
NW	2.5	4.2												93.3
NNW	6.8	.9	4.3						.9		.9			88.0
VARIABLE CALM	1.5	1.5							1.5	1.5				88.0
TOTAL	65	91	16						23	4	21		5	1761
TOTAL	3.3	4.6	.8						1.2	.2	1.1		.3	88.9

TOTAL NUMBER OF OBSERVATIONS 1,991

NAVWEASERVCOM



3

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

10701  
STATIONMIDWAY ISLAND  
STATION NAMEJANUARY 1973-DECEMBER 1982  
YEARSMARCH  
MONTH

HOURS OBSERVED

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.2	7.3	2.2											80.1
NNE	2.2	3.7	2.9								1.5			89.7
NE	1.9	6.2	1.2						.6					90.7
ENE	2.2	4.2	.9						1.4					91.2
E	.4	1.5	1.5						.7					96.7
ESE	.6	4.5	1.7						7.8		1.1			87.7
SE	2.3	3.1							2.1		.8			90.8
SSE	.9	5.2							1.7					92.2
S	.9	6.5							2.8		2.8		.5	87.0
SSW	.7	5.9	.7					.7	.7		1.3		.7	89.5
SW	2.2	11.0						1.1	1.1		2.2		1.1	83.5
WSW	2.7	7.8							2.0				2.0	86.3
W	2.4	3.7							2.4	1.2			1.2	90.2
WNW	3.0	11.3	3.8										1.9	79.2
NW	3.0	3.0							1.5	1.5	1.5		1.5	86.4
NNW	2.4	4.5	3.4						1.1		1.1			87.6
VARIABLE CALM	6.2	1.5	1.5						2.1					84.2
TOTAL	39	109	25					2	41	2	17		7	194.6
TOTAL	1.2	4.9	1.1					.1	1.9	.1	.8		.3	89.7

TOTAL NUMBER OF OBSERVATIONS 2,213

NAVWEASERVCOM



3

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

00701  
STATION

MIDWAY ISLAND  
STATION NAME

JANUARY 1973-DECEMBER 1982  
YEARS

APRIL  
MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	.5	4.5	1.8											88.7
NNE	1.7	7.2												91.1
NE	.5	3.8	1.1						.4					94.7
ENE	.5	2.3	.5								.3			96.5
E	1.1	2.2							.4		.2			96.7
ESE	3.6	1.8							1.2		.6			93.9
SE		.8												99.2
SSE		6.2							3.7		2.5			98.9
S		5.9									1.0			93.1
SSW	4.3	2.1	2.1											91.5
SW		3.1									2.7			89.2
WSW		6.3									6.3			87.5
W		10.3												89.7
WNW		10.7												89.3
NW		14.8									3.7			91.5
NNW	.3	5.3												89.5
VARIABLE														
CALM		4.5	2.3						2.3					98.9
TOTAL	2.0	52	9						9		9			2026
TOTAL	1.7	3.8	.4						.4		.4			93.8

TOTAL NUMBER OF OBSERVATIONS 2,142

NAVWEASERVCOM



3

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

22711  
STATION

MIDWAY ISLAND  
STATION NAME

JANUARY 1973-DECEMBER 1982  
YEARS

MAY  
MONTH

HOURS - L.S.T.

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.5	3.1	3.1								1.5			95.8
NNE	.7	2.6	2.0											94.7
NE	.8	5.1	1.2											92.9
ENE		2.8	.9								1.2			95.1
E	1.7	2.8	.8						.8		.3			94.9
ESE	2.1	3.6	1.0						1.1		1.6			91.7
SE	1.6	3.8							1.6		.5		.5	92.9
SSE	.9	1.8						.9	.9					95.5
S	2.3	4.6												93.1
SSW		6.0							1.2		2.4			90.5
SW	2.1	4.2	2.1											93.8
WSW	5.3	5.3												89.5
W	1.5	9.1							1.8		1.8			85.5
WNW		3.2												96.8
NW	3.9	3.9									1.9			88.2
NNW	5.2		1.7								1.7			91.4
VARIABLE														
CALM	3.6	2.4												90.0
TOTAL	3.0	79	18					1	15		16		1	2081
TOTAL	1.3	3.5	.9					.0	.7		.7		.0	93.3

TOTAL NUMBER OF OBSERVATIONS 2,230



3

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

22701

MIDWAY ISLAND

JANUARY 1973-DECEMBER 1982

JUNE

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		3.3												96.7
NNE		7.8	1.6											95.6
NE	4.3	7.3	.7											88.0
ENE	1.2	2.4	.9						.6					94.9
E	.5	2.5	.3						1.0					95.8
ESE		.7									.7			98.6
SE		1.9												98.1
SSE		2.8												97.2
S	1.5	.8	.8						.8					96.1
SSW	1.5	5.3						.9	.9					92.1
SW	4.1	.8							1.7					93.4
WSW	.2	.9							.9					97.3
W		4.0									1.0			95.0
WNW	2.4	2.4												95.1
NW		7.1												92.9
NNW			2.6											97.4
VARIABLE														
CALM		7.1	1.0								1.0			90.8
TOTAL	25	65	9					1	11		3			2047
TOTAL	1.2	3.0	.4					.0	.5		.1			94.9

TOTAL NUMBER OF OBSERVATIONS

2,158

NAVWEASERVCOM



3

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

22701

MIDWAY ISLAND

JANUARY 1973-DECEMBER 1982

JULY

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N														100.0
NNE		6.3												93.8
NE		3.3												96.7
ENE	.3	3.5						.6			.3			95.7
E	.3	2.9						.3		.1				96.7
ESE	.6	2.9						.3						96.5
SE	.5	.5						.5			.5			97.9
SSE	1.0													99.0
S	1.0	5.7	.9						.9					90.6
SSW		3.3	1.7								1.7			93.3
SW		7.1									1.8			91.1
WSW														100.0
W		12.5												87.5
WNW		10.0												90.0
NW		20.0												85.0
NNW		10.0												90.0
VARIABLE														
CALM		4.3												98.7
TOTAL	9	70	2					6	1	1	4			2143
TOTAL	.4	3.1	.1					.3	.0	.0	.2			96.0

TOTAL NUMBER OF OBSERVATIONS

2,232

NAVWEASERVCOM



3

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

22721

MIDWAY ISLAND

JANUARY 1973-DECEMBER 1982

AUGUST

STATION

STATION NAME

YEARS

MONTH

HOURS U.S.T.

WIND DIRECTION	RAIN	A N SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	3.6	7.1	3.6											95.7
NNE	1.6	7.9												95.5
NE	.9	2.4												96.8
ENE		5.6						1.0						94.1
E	.9	1.8						.2						97.1
ESE	.3	1.8												97.9
SE	1.3	2.1												96.6
SSE	1.3	1.9						.6			.6			95.6
S	2.2	4.3	.7								.7			92.1
SSW		12.5												87.5
SW		3.0												97.0
WSW		17.6												82.4
W	3.6	7.1												89.3
WNW		20.0												80.0
NW	4.0													96.0
NNW		8.3									4.2			87.5
VARIABLE														
CALM	2.1	4.3									1.1			92.6
TOTAL	21	80	2					5			4			2123
% TOTAL	.9	3.6	.1					.2			.2			95.1

TOTAL NUMBER OF OBSERVATIONS 2,233

NAVWEASERVCOM



3

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

22701

MIDWAY ISLAND

JANUARY 1973-DECEMBER 1982

SEPTEMBER

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.3	7.0						1.8						91.2
NNE		3.5												96.5
NE	.5	6.1	.6					.6	.6					92.8
ENE	.8	3.7									.3			95.6
E	.4	1.8							.2					97.8
ESE	.5	3.1						1.0						96.4
SE	1.0	9.2												89.8
SSE		5.6						1.1						93.3
S	3.8	6.3	1.3											88.6
SSW	2.3	6.8												90.9
SW		7.5												92.5
WSW	2.2													97.8
W	3.5	5.3							1.8					89.5
WNW		2.9												97.1
NW	2.9	5.7												91.4
NNW	8.3	8.3												83.3
VARIABLE														
CALM	.7	2.0									.7			96.7
TOTAL	21	86	2					5	3		2			2054
TOTAL	1.0	4.0	.1					.2	.1		.1			94.8

TOTAL NUMBER OF OBSERVATIONS 2,166

NAVWEASERVCOM



3

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

02701 MIDWAY ISLAND

JANUARY 1973-DECEMBER 1982

OCTOBER

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	2.2	3.3												94.4
NNE	1.0	6.5						.5	.5					92.0
NE		5.7	1.2					.8			.4			93.1
ENE	1.1	1.4	.3								.3			96.9
E	1.0	3.2						.3						95.5
ESE	.7	1.4							.7		2.8			94.5
SE		7.1									1.0			91.8
SSE	2.7	6.2						.9	1.8		.9			90.3
S	4.4	3.7						.7	.7					91.9
SSW	1.2	7.4						1.2	1.2		3.7			88.9
SA		4.3									2.2			93.5
ASW		4.2							2.1		2.1			93.8
A	7.2	4.3						1.4						88.4
ANW		6.3												93.8
NA	2.4													97.6
NNW		5.9												94.1
VARIABLE														
CALM	.6	1.7							.6	.6				94.7
TOTAL	30	98	4					8	8	1	13			2122
TOTAL	1.3	3.9	.2					.4	.4	.3	.6			93.9

TOTAL NUMBER OF OBSERVATIONS 2,259

NAVWEASERVCOM



3

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

22701

MIDWAY ISLAND

JANUARY 1973-DECEMBER 1982

NOVEMBER

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	.7	7.4	1.5											90.4
NNF	3.6	7.9	1.4						2.9					87.1
NE	2.5	5.0	1.5						.5		1.0			91.0
ENE	.8	5.1	1.2						.4					92.9
E	3.2	3.2	.6					1.0	1.0		.6			91.4
ESE	5.3	1.3	.7					.7	2.6		5.9			86.2
SE		3.3	1.1						2.2		1.1			92.4
SSE	1.4	2.8							1.4		1.4			93.1
S	2.2	4.4	1.1						2.2					90.1
SSW	2.7													97.3
SW	5.0	6.3	2.5											86.3
WSW	1.4	4.2							1.4					93.0
W	2.5	11.0	3.4											83.9
WNW	2.6	11.8												85.5
NW	6.3	4.8	1.6											87.3
NNW	.9	6.4												92.7
VARIABLE														
CALM	2.5	1.7	.8											96.0
TOTAL	54	107	23					4	19		15			1956
% TOTAL	2.9	4.9	1.1					.2	.9		.7			90.5

TOTAL NUMBER OF OBSERVATIONS

2,162

NAVWEASERVCOM



3

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

22701

MIDWAY ISLAND

JANUARY 1973-DECEMBER 1982

DECEMBER

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	7.1	7.1	.8						1.6					95.7
NNE	7.1	3.1												89.8
NE	1.7	2.6	.9											94.9
ENE	3.5	1.4							.7		.7			95.1
E	8.0	4.3	.5						1.1		4.3			84.6
ESE	5.5	5.5						1.1	2.2		2.2			85.7
SE	5.7	4.3	4.3						11.4					80.0
SSE	2.4	1.2	1.2						1.2		1.2			94.1
S	2.2	5.9	.7						1.5		1.5			89.0
SSW	1.4	3.5	.7					.7	1.4					94.4
SW	2.1	5.5	.7						.7		.7			91.0
WSW	3.2	3.9												92.2
W	4.0	7.1	1.0								2.5			85.9
WNA	2.9	8.1									.7			88.2
NW	6.1	7.0	1.7						.9					85.2
NNW	.7	7.9	.7						.7		.7			89.9
VARIABLE														
CALM	1.4	1.6	.8											94.8
TOTAL	85	108	16					2	23		22			2004
TOTAL	3.8	4.8	.7					.1	1.6		1.0			89.6

TOTAL NUMBER OF OBSERVATIONS 2,236

NAVWEASERVCOM



3

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

22701

MIDWAY ISLAND

JANUARY 1973-DECEMBER 1982

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS U.S.T.

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	3.1	5.9	1.3					.1	.3		.3			89.6
NNE	2.1	5.9	.8					.1	.3		.1			91.1
NE	1.4	4.9	.9					.2	.2		.2			92.7
ENE	1.1	3.4	.6					.2	.2	.0	.3			94.5
E	1.2	2.6	.3					.2	.4	.0	.3			95.4
ESE	1.8	2.6	.3					.2	1.5		1.1			93.6
SE	1.3	3.3	.4					.1	1.1		.7		.1	93.4
SSE	1.6	3.4	.1					.3	1.4		.7			93.0
S	2.3	4.9	.6					.1	1.1	.1	1.1		.1	90.1
SSW	1.9	4.9	.3					.3	.8	.1	.8		.1	91.3
SW	2.2	5.4	.4					.1	.9		1.1		.2	90.1
WSW	3.2	5.2	.2						.7		1.0		.1	89.3
W	3.4	7.2	.7					.2	.5	.1	1.0		.3	87.0
WNW	1.9	8.5	.4								.1		.2	88.6
NW	3.5	5.3	.4					.1	.3	.1	.8		.1	89.2
NNW	3.0	4.9	1.3						.4		.6			90.3
VARIABLE														
CALM	1.4	2.9	.6						.4	.2	.3			94.3
TOTAL	402	1117	136					36	160	8	144		13	24197
TOTAL	1.9	4.3	.5					.1	.6	.0	.5		.0	92.3

TOTAL NUMBER OF OBSERVATIONS

26,203

NAVWEASERVCOM



NOCOD. Federal Building  
Asheville, N. C.

## PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION

DERIVED FROM DAILY OBSERVATIONS

SNOWFALL\*

DERIVED FROM DAILY OBSERVATIONS

SNOW DEPTH

DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0800 LST
	Jan 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather	From beginning of record thru Jun 52	Snow depth at 0030 GCT
Bureau Stations	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

\* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956, and after Dec 1979.



3

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
PRECIPITATION  
(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	.	2	7.7	17.5	7.7	14.0	7.7	5.7	3.7	1.7	.1			15.0	93	5.15	17.5	1.7
FEB	13.7	1	7.7	17.1	7.7	6.5	5.7	4.7	3.7	.7				47.8	95	3.64	17.1	.1
MAR	67.7	1	4.7	11.3	7.7	6.9	6.9	6.7	1.7	.4				7.7	1054	3.05	11.3	.7
APR	4	71.4	4.5	10.9	5.7	5.4	7.7	7.7	1.7	.4				13.4	1120	2.20	11.7	.7
MAY	.	1	4.7	.7	7.7	5.4	.7	1.7	.	.7	.1			7.7	174	2.41	12.7	.7
JUN	7.7	17.7	4.7	11.7	7.7	6.1	7.7	1.7	1.7		.7			37.7	967	3.39	17.4	.7
JUL	.	7.7	7.7	17.5	7.7	9.4	4.7	7.7	2.7	.4				47.7	1023	3.40	17.5	.5
AUG	7.7	13.7	.7	14.1	7.7	8.2	6.7	3.7	7.7	.7				47.7	992	4.2	17.7	1.1
SEP	7.7	10.7	.7	14.2	7.7	9.4	7.7	6.7	1.7	.7				47.7	907	3.35	17.7	.7
OCT	.	17.1	.7	14.7	7.7	6.7	.7	7.1	2.7	.2	.7			47.7	1054	3.59	17.1	.7
NOV	3.7	1	7.7	13.8	7.7	6.1	6.5	7.1	2.7	.7	.7			47.7	1020	4.5	17.2	.7
DEC	3.7	13.7	7.7	17.0	7.7	10.4	7.2	5.7	2.7	.6				7.6	992	4.3	17.7	.7
ANNUAL	17.7	1	4.7	17.5	7.7	8.2	7.7	3.7	7.7	.4	.1			43.7	1779	4.1		

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# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.03	.04-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	.															.	.	.
FEB	.															.	.	.
MAR	.														104	.	.	.
APR	.														120	.	.	.
MAY	.														146	.	.	.
JUN	.														7	.	.	.
JUL	.														107	.	.	.
AUG	.														7	.	.	.
SEP	.															.	.	.
OCT	.														102	.	.	.
NOV	.														100	.	.	.
DEC	.														12	.	.	.
ANNUAL	.														111	.		

NAVWEASERVCOM



3

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
(FROM DAILY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	•																	
FEB	•																	
MAR	•													12				
APR	•													120				
MAY	•													14				
JUN	•																	
JUL	•													12				
AUG	•													9				
SEP	•																	
OCT	•													12				
NOV	•													100				
DEC	•													102				
ANNUAL	•													118				

NAVWEASERVCOM



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

PRECIPITATION  
(FROM DAILY OBSERVATIONS)

0771  
STATION

MIWAY ISLAND

STATION NAME

47-87

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
49		3.15	.56	.35	.38	1.02	1.13	.42	.15	.27	.40	2.00	
50		.12	.40	.25	.60				.10	.20	.25	.67	
51	1.77	1.27	.67	.22	.92	.10	.22	.60	.38	.95	2.40	.90	2.40
52	1.73	1.64	.38	1.22	.11	7.33	.81	1.76	1.23	1.04	.70	.33	7.73
53	2.84	1.24	1.34	2.30	2.60	.86	2.66	.45	2.46	.73	1.19	.44	2.74
54	.59	.30	.40	1.59	.13	.43	.98	.41	.99	.30	.91		
55	.47	1.71	.50	1.01	.13	.20	.55	1.64	.53	6.83	1.40	1.13	6.83
56	.80	1.22	.36	.11	.86	2.24	2.05	3.63	1.72	2.70	.17	.84	3.63
57	1.24	2.92	.30	.50	.57	.23	1.63	4.55	.74	.72	1.00	1.54	4.55
58	.84	1.63	1.24	.00	.41	.91	.43	.44	.98	1.03	1.05	.65	1.04
59	.60	.01	.84	1.36	.14	1.80	.66	2.11	1.37	.44	.07	.27	2.11
60	1.14	1.27	.61	3.30	6.87	.73	.23	4.24	.55	1.50	1.15	.42	6.80
61	3.13	1.94	2.17	.81	.97	7.16	.30	.42	.50	3.31	.77	1.62	7.16
62	1.43	1.76	3.01	5.00	.15	1.70	1.91	.90	.82	1.50	1.01	1.46	5.00
63	1.27	1.03	3.34	1.35	.93	.50	2.10	1.37	1.20	1.36	3.73	.89	3.76
64	1.76	1.36	3.80	1.43	1.56	1.28	1.22	.40	.40	1.73	1.92	1.00	1.92
65	.37	1.07	.73	1.41	.12	1.32	.50	.52	1.81	.33	2.63	1.16	2.63
66	.77	.14	.46	.47	.83	.36	1.09	.53	1.07	6.80	1.20	.37	6.80
67	1.34	2.45	.75	1.04	.40	1.00	3.02	3.36	.38	1.23	6.19	.93	6.19
68		1.07	.00	.42	1.35	.77	2.12	2.03	1.10	.31	.06	3.80	
69	.64	1.75	.53	.41	.21	.15	.93	1.67	.57	.87	2.23	1.04	2.23
70	.86	.93	1.20	1.57	2.92	.53	1.09	.98	3.77	1.56	3.53	1.30	3.73
71	1.14	2.06	.42	.22	.44	.28	.41	4.26		.62	1.11	1.41	
72	1.36	1.29	.79	2.70	.82	.99	3.82	.69	2.90	.39	.48	.21	3.00
73	.81	.73	.86	.70	.20	.17	.77	.91	.92	.94	2.46	.39	2.46
74	1.22	.54	3.85	.45	3.27	.36	1.95	2.24	1.83	.78	3.03		
75	1.13	1.26	1.62	.61	1.91	.31	1.72	.41	.41	1.98	1.01	.76	1.98
76	1.37	1.77	.57	.63	1.05	1.76	.24	.65	.26	.43	.74	.76	1.77
77	1.36	.54	1.31	.21	.41	.09	1.14	.27	2.76	.90	2.20	2.71	2.76
78	.94	.56	.95	.58	.21		1.15	1.50	1.16	1.31	.62	4.00	
MEAN													
S. D.													
TOTAL OBS.													

SMOS



## EXTREME VALUES

PRECIPITATION  
(FROM DAILY OBSERVATIONS)

32751

WEDNESDAY ISLAND

49-92

STATION

STATION NAME

**YEARS**

24 HOUR AMOUNTS IN INCHES

[illegible]

SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

PRECIPITATION  
(FROM DAILY OBSERVATIONS)

STATION 12701 HIGHWAY ISLAND 47-40 YEARS

24 HOUR AMOUNTS IN INCHES  
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
12	1.17 4												PRECIP DAYS
11	.84 30					.10 2							PRECIP DAYS
4												.47 29	PRECIP DAYS
60	1.96 30												PRECIP DAYS
74												1.69 30	PRECIP DAYS
75						1.71 29							PRECIP DAYS
80								1.27 7					PRECIP DAYS
1	1.35 32												PRECIP DAYS
MEAN													
S. D.													
TOTAL OBS													

SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOW FALL

(FROM DAILY OBSERVATIONS)

82001

HIKWAY ISLAND

42-82

STATION

STATION NAME

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
60		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
62		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
63		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
64		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
65		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
66		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
67		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
68	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
69		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
70		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
72		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
73		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
74		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
75		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
76		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
77		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
78		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
MEAN													
S. D.													
TOTAL OBS.													

SMOS



## EXTREME VALUES

SNOWFALL  
(FROM DAILY OBSERVATIONS)

371

WILLOW ISLAND

43-82

STATION

STATION NAME

**YEARS**

24 HOUR AMOUNTS IN INCHES

[illegible]

## SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOWFALL  
(FROM DAILY OBSERVATIONS)

22701 MIDWAY ISLAND 49-82  
STATION STATION NAME YEARS

24 HOUR AMOUNTS IN INCHES  
BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
49	• 4												SNOWFALL DAYS
50	• 5					• 2							SNOWFALL DAYS
51									• 29				SNOWFALL DAYS
52										• 30			SNOWFALL DAYS
53	• 10												SNOWFALL DAYS
54												• 10	SNOWFALL DAYS
55						• 27							SNOWFALL DAYS
56								• 30					SNOWFALL DAYS
57	• 12												SNOWFALL DAYS
MEAN													
S. D.													
TOTAL OBS.													

SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

12701 MIDWAY ISLAND 40-87  
STATION STATION NAME YEARS

DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													
61													
62													
63													
64													
65													
66													
67													
68													
69													
70													
71													
72													
73													
74													
75													
76													
77													
78													
MEAN													
S D													
TOTAL OBS													

SMOS



## EXTREME VALUES

(FROM DAILY OBSERVATIONS)

43-27

STATION

STATION NAME

**YEARS**

DAILY SNOW DEPTH IN INCHES

[illegible]

## SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNO. DEPTH  
(FROM DAILY OBSERVATIONS)

2701

MIDWAY ISLAND

40-52

STATION

STATION NAME

YEARS

DAILY SNOW DEPTH IN INCHES  
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
42													SNO DPTH DAYS
43	4												SNO DPTH DAYS
44	20					2							SNO DPTH DAYS
45													SNO DPTH DAYS
46			20						20				SNO DPTH DAYS
47										30			SNO DPTH DAYS
48	20												SNO DPTH DAYS
49													SNO DPTH DAYS
50												20	SNO DPTH DAYS
51						20							SNO DPTH DAYS
52								20					SNO DPTH DAYS
1	2												SNO DPTH DAYS
MEAN													
S. D.													
TOTAL OBS.													

SMOS



3

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

2701  
STATION

MIDWAY 10 ANV

STATION NAME

1949-1992

YEARS

JANUARY  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.0	23	1962			
2	0.0	16	1974			
3	0.1	29	1979			
4	1.2	31	1957			
5	1.2	35	1972			
6	1.2	33	1972			
7	1.3	35	1940			
8	1.7	45	1952			
9	1.2	32	1957			
10	1.2	32	1962			
11	0.0	24	1960			
12	1.11	2	1982			
13	1.3	36	1962			
14	1.0	35	1953			
15	1.0	30	1953			
16	0.7	20	1966			
17	0.1	21	1973			
18	1.2	34	1964			
19	0.0	45	1964			
20	1.2	32	1963			
21	1.0	35	1976			
22	0.4	72	1957			
23	0.1	7	1961			
24	1.0	5	1968			
25	1.0	36	1979			
26	0.6	17	1970			
27	1.1	41	1979			
28	0.2	19	1963			
29	1.0	36	1977			
30	0.0	12	1958			
31	1.0	45	1951			
Monthly	0.4	125	1958			

FEBRUARY  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.67	17	1958			
2	0.7	25	1967			
3	1.7	45	1976			
4	1.4	49	1961			
5	3.2	21	1949			
6	0.2	74	1957			
7	1.1	41	1971			
8	1.3	35	1962			
9	1.0	27	1965			
10	0.1	21	1962			
11	0.0	24	1971			
12	3.05	77	1949			
13	1.00	25	1976			
14	1.2	32	1975			
15	1.7	35	1982			
16	1.22	31	1956			
17	0.8	25	1955			
18	1.1	43	1955			
19	0.5	17	1972			
20	0.5	15	1965			
21	2.6	7	1971			
22	2.0	53	1967			
23	1.13	28	1981			
24	1.4	42	1952			
25	1.6	45	1962			
26	1.6	43	1958			
27	0.12	54	1979			
28	1.4	47	1961			
29	0.2	7	1972			
30						
31						
Monthly	3.05	77	1949			

DIRNAVOCEANMET-SMOS

\* ALSO ON EARLIER YEARS  
T - TRACE, AN AMOUNT TOO SMALL TO MEASURE  
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD



3

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY EXTREME AMOUNTS

STATION  
2711STATION NAME  
HOGWAY ISLAND

1949-1982

YEARS

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.76	19	1961			
2	0.14	20	1962			
3	0.2	41	1975			
4	3.2	87	1964			
5	3.5	98	1974			
6	0.7	26	1974			
7	0.1	55	1961			
8	0.77	2	1972			
9	0.2	33	1974			
10	1.3	35	1967			
11	0.75	19	1973			
12	0.3	11	1973			
13	1.1	29	1964			
14	0.5	14	1965			
15	0.1	76	1962			
16	1.2	31	1959			
17	0.2	16	1963			
18	0.3	19	1963			
19	2.01	61	1963			
20	0.3	95	1967			
21	0.3	11	1963			
22	0.6	16	1959			
23	0.57	14	1973			
24	1.71	33	1977			
25	0.7	13	1973			
26	1.2	33	197			
27	0.4	14	1978			
28	0.1	10	1970			
29	0.7	5	1962			
30	0.43	11	1978			
31	0.1	1	1974			
Monthly	3.5	78	1974			

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.35		1972			
2	0.1	21	1954			
3	2.72	69	1972			
4	1.3	34	1963			
5	0.1	15	1975			
6	0.33		1957			
7	1.0	38	1970			
8	1.20	31	1952			
9	0.7	22	1962			
10	1.5	40	1954			
11	1.10	29	1954			
12	1.3	76	1964			
13	0.0	127	1962			
14	0.02	77	1962			
15	0.47	12	1966			
16	0.7	2	1982			
17	1.41	36	1965			
18	0.35	9	1949			
19	0.0	13	1957			
20	1.0	26	1967			
21	1.37	35	1972			
22	1.23	31	1972			
23	0.15	4	1962			
24	1.3	35	1959			
25	1.30	5	1973			
26	0.2	6	1953			
27	0.1	4	1976			
28	0.22	6	1955			
29	0.40	12	1974			
30	0.30		1969			
31						
Monthly	0.0	127	1962			

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS



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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

2701

MOORE ISLAND

1 42-1992

STATION

STATION NAME

YEARS

MONTH

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.0	24	1963			
2	0.01	26	1966			
3	0.4	12	1967			
4	0.1	27	1981			
5	0.1	74	1981			
6	0.0	22	1956			
7	0.0	13	1967			
8	0.0	21	1966			
9	0.0	71	1977			
10	1.12	34	1977			
11	0.2	74	1977			
12	0.0	66	1953			
13	0.0	27	1977			
14	1.4	37	1977			
15	0.5	40	1964			
16	0.0	14	1974			
17	0.2	21	1972			
18	0.13	40	1977			
19	0.73	19	1974			
20	0.2	7	1966			
21	0.2	83	1974			
22	0.6	17	1974			
23	0.0	7	1974			
24	0.22	31	1963			
25	1.3	34	1968			
26	0.02	14	1974			
27	0.1	17	1977			
28	0.0	17	1977			
29	0.0	9	1966			
30	0.0	5	1973			
31	0.1	5	1971			
Monthly	0.0	173	1967			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.12	3	1950			
2	0.2	13	1967			
3	0.3	0	1967			
4	0.5	17	1968			
5	1.23	33	1964			
6	0.5	4	1952			
7	0.4	16	1953			
8	1.0	46	1959			
9	0.1	23	1958			
10	1.1	49	1952			
11	0.33	196	1952			
12	0.3	21	1979			
13	0.02	51	1952			
14	0.37	9	1981			
15	1.2	32	1965			
16	0.16	182	1961			
17	0.0	22	1953			
18	0.32		1987			
19	0.2	13	1964			
20	1.1	40	1979			
21	1.2	34	1965			
22	0.1	23	1965			
23	0.5	14	1965			
24	0.9	25	1972			
25	0.4	17	1987			
26	1.6	45	1976			
27	1.0	36	1956			
28	0.0	13	1963			
29	2.24	57	1956			
30	0.1	13	1956			
31						
Monthly	7.33	186	1952			

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS



3

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

STATION

STATION NAME

1942-1952

YEARS

JULY  
MONTH

AUGUST  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.2	5	1970			
2	0.39		1971			
3	0.7		1973			
4	0.8	23	1967			
5	0.0	27	1967			
6	0.01	5	1978			
7	0.7	21	1963			
8	0.0	21	1967			
9	0.01		1971			
10	0.0	5	1971			
11	0.1	3	1980			
12	0.0	7	1968			
13	0.0	18	1941			
14	0.6	17	1962			
15	0.7	2	1977			
16	0.22	71	1964			
17	0.1	2	1977			
18	0.7	25	1967			
19	1.3	34	1967			
20	1.0	35	1972			
21	0.0	17	1972			
22	0.12	54	1968			
23	0.0	22	1949			
24	0.2	32	1979			
25	0.6	68	1973			
26	0.1	13	1957			
27	1.1	27	1978			
28	0.02	77	1967			
29	0.0	52	1954			
30	1.0	25	1971			
31	0.1	55	1979			
Monthly	0.2	77	1972			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.0	42	1965			
2	0.0	21	1967			
3	1.2	31	1967			
4	3.3	85	1967			
5	0.0	15	1967			
6	2.6	73	1962			
7	4.0	109	1971			
8	1.2	1	1971			
9	0.0	0	1962			
10	1.0	27	1956			
11	0.8	25	1970			
12	0.23	57	1957			
13	0.55	116	1957			
14	3.3	97	1966			
15	0.0	23	1962			
16	0.3	17	1966			
17	1.4	42	1966			
18	0.0	15	1971			
19	0.7	22	1957			
20	0.24	57	1974			
21	1.1	41	1960			
22	1.1	30	1968			
23	0.03	52	1968			
24	0.2	23	1960			
25	1.5	47	1960			
26	4.24	108	1967			
27	1.0	40	1960			
28	0.11	54	1959			
29	0.0	74	1979			
30	0.5	19	1973			
31	0.2	23	1961			
Monthly	0.55	116	1957			

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS



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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

STATION NAME

1 40-1982

YEARS

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.0	0	1977			
2	0.0	0	1977			
3	0.0	0	12 1969			
4	0.0	0	46 197			
5	1.0	25	1959			
6	0.0	0	23 1966			
7	1.1	28	1978			
8	0.2	46	1989			
9	1.2	31	1952			
10	0.1	54	1982			
11	0.2	44	1956			
12	0.8	23	1954			
13	0.1	0	1962			
14	0.0	0	21 1962			
15	0.0	0	6 1954			
16	1.0	72	1972			
17	0.0	0	24 1972			
18	0.0	0	25 1972			
19	0.0	0	14 1957			
20	0.21	31	1977			
21	0.0	0	22 1982			
22	0.4	62	1957			
23	0.7	2	1983			
24	0.0	0	19 1974			
25	0.1	46	1965			
26	0.2	33	1963			
27	0.0	0	14 1956			
28	1.0	35	1953			
29	0.1	10	1969			
30	0.0	0	19 1981			
31						
Monthly	1.0	25	197			

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	6.3	173	1955			
2	1.23	31	1967			
3	1.6	47	1963			
4	2.0	52	1961			
5	0.00	152	1966			
6	0.4	6	1987			
7	3.1	8	1987			
8	0.31	84	1961			
9	1.0	26	1952			
10	1.1	33	1978			
11	1.5	4	1970			
12	0.8	25	1951			
13	1.07	27	1970			
14	1.11	2	1954			
15	0.0	51	1955			
16	0.5	17	1963			
17	1.7	45	1978			
18	1.7	45	1979			
19	1.0	27	1966			
20	0.30		1954			
21	0.1	13	1953			
22	1.0	27	1975			
23	0.02	56	1982			
24	1.8	50	1961			
25	1.0	40	1964			
26	0.3	0	1954			
27	0.02	6	1974			
28	1.01	26	1963			
29	0.8	22	1957			
30	0.3	19	1953			
31	0.3	13	1969			
Monthly	6.3	173	1955			

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS



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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY EXTREME AMOUNTS

STATION NOVEMBER ISLAND  
STATION NAME

1949-1962  
YEARS

NOVEMBER  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	.	72	1959			
2	.	73	1967			
3	.	56	1977			
4	.	24	1976			
5	.20	20	1966			
6	.2	57	1960			
7	.3	77	1967			
8	.3	77	1974			
9	.00	127	1979			
10	.21	31	1962			
11	.1	157	1967			
12	.0	63	1951			
13	.0	7	1957			
14	.1	3	1953			
15	.1	15	197			
16	.0	60	197			
17	.	57	1951			
18	1.	36	1955			
19	1.7	34	1967			
20	.1	5	1960			
21	.	12	1949			
22	.3	67	1967			
23	.5	14	1964			
24	.1	21	1954			
25	.5	22	1960			
26	.	24	1967			
27	.3		1970			
28	1.0	27	1974			
29	.7		1952			
30	1.	36	1982			
31						
Monthly	.1	157	1967			

DECEMBER  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	.5	73	1960			
2	1.1	36	1971			
3	1.5	40	1970			
4	0.2	16	1977			
5	.6	19	1975			
6	2.	66	1960			
7	3.8	99	1960			
8	1.0	4	1960			
9	.7	21	1974			
10	.5	17	1977			
11	.0	23	1964			
12	.5	3	194			
13	1.2	33	1967			
14	4.	124	1970			
15	0.0	23	1955			
16	1.4	39	1957			
17	.1	15	1977			
18	2.1	69	1977			
19	0.4	14	1960			
20	.5	14	1965			
21	1.1	33	1967			
22	0.7	24	1961			
23	1.11	2	1962			
24	1.	43	1977			
25	1.	27	1967			
26	0.7	16	1950			
27	1.2	41	1961			
28	.5	17	1974			
29	7.2	83	1968			
30	1.4	37	1967			
31	0.7	20	1970			
Monthly	4.	124	1975			

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS



NOCP, Federal Building  
Asheville, N. C.

## PART C

## SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

- a. Three tables are prepared for all surface winds included, and for all years combined as follows:

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SURFACE WINDS  
(FROM DAILY OBSERVATIONS)

STATION 12701 MIDWAY ISLAND STATION NAME 49-81 YEARS

DAILY PEAK GUSTS IN KNOTS

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1		43			31	30	37	26	26	35	37	42	
2	51	40	56	44	32								
3						25		17	22	36			
4			50	35		33	40	15	29	46	35	31	
5	47	44	37	39	40	32	32	22	44	33	29	44	45
6	62	45	47	34	26	23	34	24	31	29	40	41	40
7	37	46		24									
8	33	45	40	31	26	28	31	28	34	50	41	77	77
9	42	46	47	33	31	34	35	35	25	42	33	48	48
10	51	52	36	30	26	34	31	47	43	41	41	47	52
11	67	40	40	52	40	35	33			41	35	43	
12	44	49	52	37	41	27	32	37	45	42	36	44	
13	45	43	55	41	32	36	26	30	38	46	29	47	45
14	66	49	50	44	30	29	32	30	36	35	42	57	56
15	64	56	49	37	30	28	35	35	34	45	41	46	64
16	37	43	42	32	42	47	33	31	33	41	45	61	62
17	59	38	58	41	27	43	56	26	39	63	40	33	63
18	40	37	31	57	30	23	30	35	30	42	47	49	57
19	42	41	40	39	34	30	36	41	35	30	52	60	60
20	66	51	47	37	32	26	33	32	43	35	34	49	66
21	37	36	27	22	32	25	27	31	27	30	41	45	46
22	49	50	41	31	36	26	44	37	37	40	46	37	50
23	44	63	27	28	31	30	20	40	13	39	38	40	
24	42	51	36	60	23	31	35	30	45	35	34	37	40
25	36	32	35	23	22	21	28	27	30	35	34	36	36
26	49	30	43	27	33	30	36	26	30	34	39	32	49
27	37	41	39	47	35	27	33	32	28	28	36	42	47
28	49	40	31	29	28	36	30	32	26	27	32	36	49
29	40	42	50	34	29	22	29	25	31	31	40	41	50
30	43	33	34	21	24	23	45	28	35	34	38	31	48
MEAN													
S. D.													
TOTAL OBS.													

SMOS



## EXTREME VALUES

**SURFACE WINDS**  
(FROM DAILY OBSERVATIONS)

12001  
STATIC

MIDWAY ISLAND

44-57

STATION NAME

YEARS

## DAILY PEAK GUSTS IN KNOTS

[illegible]

## SMOS



957 25060 44321

**SURFACE WINDS**  
(FROM DAILY OBSERVATIONS)

40-27

STATION NAME

**YEARS**

[illegible]

## SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION WISKEY ISLAND STATION NAME 73-87 YEARS JAN  
ALL WEATHER MONTH 31  
 CLASS ALL WEATHER HOURS (LST) 31  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0									4.2	5.8
NNE	1.0	1.0	.7	.7								3.6	5.0
NE	.7											.3	3.0
ENE	.7		.7	1.0								2.1	10.5
E	.7	1.0	1.0	1.0								3.5	9.4
ESE			1.0	2.1	.7							3.6	11.6
SE			1.0		.3	.3						2.1	12.3
SSE		.7	1.0	2.4	.3							4.5	10.6
S		2.1	1.0	2.1	1.0	.3						6.6	11.3
SSW	.7	.7	1.1	3.5	1.0	.3						9.0	12.1
SW	.7	.3	1.0	4.2	1.4	.3						8.0	13.1
WSW	.7	1.0	.7	2.8	.7	.3						5.9	12.4
W	.7	2.8	4.2	3.5	2.1	.3						13.1	10.8
WNW	1.4	1.0	1.4	3.5	.7							8.0	10.2
NW	.7	1.0	2.4	4.2	1.7	.3						10.4	11.7
NNW	.7	3.1	4.2	.7								8.7	7.6
VARBL													
CALM												6.7	
	8.3	16.3	26.0	31.1	2.7	2.4						100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 289

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 271 MUNAY ISLAND STATION NAME 23-74.82 YEARS JAN  
ALL WEATHER 08  
CLAM 08  
08 08  
08 08  
08 08

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0	2.0									6.1	5.3
NNE	.5	.5	1.0	.5								2.6	7.0
NE				.5								.5	13.0
NNE	.5	.5		1.0								2.0	9.0
E		.5	.5	1.0	1.0							3.1	12.3
ESE		.5	1.0	.5								2.0	8.5
SE			1.0	1.5								3.1	10.5
SSE	.5	1.0	.5	.5	.5							4.1	9.8
S		2.0	2.0	3.0	1.0		.5					9.7	11.7
SSW		1.0	1.0	2.0	1.5							6.1	12.8
SW	1.0	1.5	2.0	4.1	1.0	1.5	.5					12.2	12.6
WSW	1.0		1.0	4.1	1.0	1.1						9.2	12.8
W	1.0	1.5	2.0	4.1	2.0							10.7	11.3
WNW		.5	1.0	2.0	1.0	.5						5.6	13.2
NW		.5	2.0	4.1	1.5	.5						9.2	13.2
NNW		1.0	2.0	2.0								6.6	10.3
VARIABLE													
CALM												7.1	
	1.0	1.0	2.0	12.7	10.7	1.0	1.0					100.0	10.5

TOTAL NUMBER OF OBSERVATIONS 196



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 27-1 STATION NAME MIDWAY ISLAND YEARS 73-80 MONTH JAN

ALL WEATHER  
CLASS

CONDITION

87  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.6	1.7	.6								4.8	6.3
NNE	1.0	2.3	1.5	.3								4.5	5.8
NE	.6	1.0		1.0								2.6	7.0
ENE	.3	1.6	1.0	.6								3.5	7.7
E		.3	.6	.6								1.6	10.0
ESE		.3	.6	1.3	.6							2.9	12.4
SE		.3	1.3	1.3		.3						2.9	11.0
SSE		.3	.3	.6	.3							1.6	12.0
S	.6	1.6	2.3	2.6	.3							7.4	9.6
SSW	.3	1.3	1.6	3.9	1.0	.6						8.7	12.2
SW		.3	2.3	4.5	.3	.6						8.1	12.9
WSW	.5	.6	3.2	1.9								6.5	8.7
W	.6	2.6	2.9	6.5	1.3	.3						14.2	11.1
WNW	.6	1.9	2.9	2.9	.6	.3						9.4	10.5
NW		1.1	2.0	3.5	1.3							8.7	11.7
NNW		1.3	2.5	2.6								6.6	9.7
VARB.													
CALM												5.8	
	6.1	18.4	27.1	34.5	5.8	2.3						100.0	9.7

TOTAL NUMBER OF OBSERVATIONS 310

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 271 MIDWAY ISLAND STATION NAME 13-02 YEARS JAN  
CLASS ALL WEATHER MONTH 10  
CONDITION 10  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.4	1.4	.3								4.2	7.0
NNE	1.0	1.4	1.3	.3								5.2	5.6
NE	.3		1.4									1.9	7.3
ENE	.4	1.3	1.3	.6								3.9	7.0
E	.2	.6	1.0	1.0	.3							3.2	9.9
ESE		.3	1.0	1.0	.3							2.6	10.8
SE	.2	.6		1.0	1.0							2.0	12.3
SSE		.3	1.4	.6	.6							3.2	10.7
S		1.0	3.0	2.4	1.0	.3						8.7	11.4
SSW	.3		1.0	3.2	.3							6.5	12.1
SW	.3	.3	2.8	3.5	1.4	1.0						9.7	13.0
WSW	1.0	.3	2.3	1.0	.3	.3						6.1	10.0
W	1.0	1.2	3.5	3.2	1.6							11.9	10.3
WNW		1.4	3.9	3.2	2.3	.3						11.3	12.1
NW	.3	2.3	2.9	3.2	1.3							10.0	10.5
NNW		.6	2.3	1.3								4.2	9.2
VARB													
CALM												4.5	
	7.1	14.5	32.9	28.4	10.6	1.8						100.0	10.0

TOTAL NUMBER OF OBSERVATIONS 310

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 229-1 MIDWAY ISLAND STATION NAME 73-62 YEARS JAN  
ALL WEATHER MONTH 13  
 CLASS 13  
 HOURS (LST) 13  
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N		1.2	1.6	.3	.3							4.2	8.2
NNE	.3	1.6	1.6	.6								4.2	7.4
NE		.7	1.7	.3								1.6	5.0
ENE	.7	.7	1.0									1.6	5.8
E		1.1	2.6	.6	1.0							5.8	9.8
ESE			.2		.3							1.0	11.3
SE		.3	1.3	1.3	.3							3.2	10.8
SSE	.7		1.6	1.3	1.7							4.2	11.7
S		1.3	2.3	2.9	.6							7.1	10.7
SSW	.3	.3	1.9	4.5	1.3	.3						8.7	13.1
SW			1.9	3.5	1.0	1.3	.3					8.1	15.4
WSW	1.0	.6	1.0	4.2	1.6	.3						4.7	12.4
W	1.3	2.9	3.2	3.9	.3	.6						12.3	9.7
WNW		1.6	4.5	4.5	.6	.3						11.6	11.1
NW		1.0	3.5	5.8	1.0							11.3	12.0
NNW		.6	2.3	1.6								4.5	9.7
VARB													
CALM												1.0	
	3.0	14.5	31.9	35.5	9.4	2.9	.3					100.0	10.3

TOTAL NUMBER OF OBSERVATIONS 310

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION MT. WATKINS ISLAND STATION NAME 23-07 YEARS 1951  
ALL WEATHER MONTH 16  
CLAS HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	2.4	1.1	.4								4.6	6.0
NNE		.4	1.1	.7								2.1	9.0
NE	.4		.4	.4								1.1	6.3
ENE	.4	.7	1.4	1.1	.4							3.9	9.8
E	.4	1.4	1.4		.4							3.6	7.4
ESE		.4	1.1	.7	.4							2.5	9.9
SE		.4	2.1	1.1								3.6	9.5
SSE	.7	.4	1.4	1.4								3.9	9.1
S	.7	.4	7.2	1.4	.7	.7						7.1	10.6
SSW	.4	1.1	1.4	5.7	1.4	.7						10.0	13.2
SW		.7	1.1	3.6	1.1	1.1	.4					7.0	14.5
WSW	.4	1.1	1.1	2.9	.7	1.1						7.1	12.7
W	.7	1.6	4.3	3.6	1.8	.7						12.9	11.8
WNW	.4	.4	3.6	3.2	2.1							9.6	12.1
NW		1.1	4.4	3.9	1.1	.4						11.1	11.6
NNW	.7	1.4	2.1	2.5	.4	.4						7.9	10.2
VARBL													
CALM												1.1	
	5.4	14.6	31.4	31.8	10.4	5.0	.4					100.0	11.0

TOTAL NUMBER OF OBSERVATIONS 280

SNOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 223 WILKEY ISLAND STATION NAME 73-22 YEARS JAN MONTH 19  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.4	2.1									6.1	5.9
NNE	2.1	1.1	.7	.4								4.3	5.3
NE		.8	.4	1.1								1.6	10.6
ENE		.4	.4	.1	.4							2.1	11.3
E		2.1	1.1	.4	.4							4.3	7.4
ESE	.1	.7	.4	1.5	.4							3.2	10.0
SE		.5	1.4	.7								2.5	8.9
SSE		1.1	.7	1.6	.4							5.0	9.1
S	.4	1.1	.7	2.1	.4	.4						5.0	10.7
SSW		2.1	2.5	1.4	1.4	.4						8.2	11.3
SW	.7	.7	3.6	3.6	.7	.7						10.0	11.6
WSW	.4	1.1	1.1	1.1	.4	.7	.4					5.0	13.0
W	.7	.4	2.9	3.2	2.1							9.3	11.8
WNW	.7	2.5	3.2	2.5	2.1	1.1						12.1	11.6
NW	.4		3.2	3.9	1.4							8.9	12.3
NNW	.7	2.1	2.9	2.5	.7							8.9	9.2
VARBL													
CALM												3.2	
	7.5	20.4	27.1	27.1	11.1	3.2	.4					100.0	12.0

TOTAL NUMBER OF OBSERVATIONS 280

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1211 MIDWAY ISLAND STATION NAME 23-74.62 YEARS JAN  
22  
DATE (C & Y)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	3.6	3.1		.5							9.7	5.9
NNE	.5		1.0									1.5	6.7
NE	.5		1.0									2.0	7.8
ENE		1.0		.5	.5							2.0	11.0
E			.5	1.5	.5							2.6	11.5
ESE		1.0	1.0	1.5	.5							4.1	10.6
SE		.5		.5	.5							1.5	11.7
SSE			2.0	2.0								4.1	10.3
S		1.5	2.6	2.6	1.0							7.7	11.1
SSW	.5	2.0	3.6	2.0	1.0	.5						9.7	10.5
SW		.5	.5	3.6	1.5							6.1	14.2
WSW		1.0	1.5	1.5	1.0							5.1	11.4
W	1.0	1.0	4.1	3.6	2.0							11.7	11.4
WNW	1.5	.5	1.0	2.6	2.0	.5						8.2	12.1
NW	.5	2.0	3.6	4.1	.5							10.7	10.1
NNW			5.1	2.6								8.2	9.9
VARIABLE													
CALM												5.1	
	7.1	14.6	31.1	29.1	11.7	1.0						100.0	13.0

TOTAL NUMBER OF OBSERVATIONS 196



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 27-1 MIDWAY ISLAND STATION NAME 77-00 YEARS JAN  
MONTH  
ALL WEATHER CLASS ALL  
HOURS (LST) 11  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.2	1.6	.2	.1							5.3	6.3
NNE	1.0	1.2	1.1	.4								3.7	6.2
NE	.7	.2	.6	.5								1.5	5.2
ENE	.1	.7	.6	.7	.1							2.7	5.8
E	.1	1.1	1.2	.7	.4							3.5	9.4
ESE	.7	.4	.7	1.1	.4							2.7	10.6
SE	.7	.3	1.2	.2	.3	.1						2.3	10.8
SSE	.2	.6	1.7	1.3	.4							3.6	12.3
S	.2	1.3	2.7	2.4	.7	.2	.7					7.3	10.9
SSW	.7	1.6	2.1	1.5	1.2	.4						8.4	12.2
SW	.3	.5	2.1	1.8	1.1	.8	.1					6.7	13.3
WSW	.1	.7	1.6	2.5	.7	.5	.0					6.7	11.7
W	.5	1.5	3.4	4.1	1.6	.3						12.1	11.0
WNW	.6	1.3	2.9	3.1	1.4	.4						9.7	11.5
NW	.2	1.1	3.2	4.1	1.2	.1						10.7	11.6
NNW	.3	1.4	3.0	2.0	.1	.0						6.7	9.4
VARBL													
CALM												4.2	
	6.4	16.1	29.1	31.4	9.8	2.6	.7					100.0	10.2

TOTAL NUMBER OF OBSERVATIONS 2171



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ATLANTIC ISLAND STATION NAME 73-81 YEARS 1954-1955 REF 100  
CLASS ALL HOURS (LST) 01  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.0		1.2	.4							4.0	8.1
NNE	1.0	3.0	2.0	1.0								8.0	6.4
NE	1.0	1.0	1.0	1.0	.4							5.6	8.4
ENE		.5	.4	.5	.4	.4						2.8	12.7
E		1.0	1.0	2.4	.4							6.8	10.2
ESE		.2	1.0	2.6	1.7							6.4	12.3
SE			.4	.4	.7							2.8	12.4
SSE		.4	.4	2.0	.4							3.6	11.3
S	.4	1.0	3.0	4.4	.4							10.0	11.0
SSW		2.0	3.0	1.0	.4							0.0	9.4
SW			1.0	3.0	1.0							4.0	10.4
WSW			2.0	1.0	.4							5.0	10.4
W	2.0		1.0	2.0								6.0	8.3
WNW	.4	.2	1.0	3.0	.4							6.0	10.5
NW		.4	.4	2.0								3.0	12.1
NNW	1.0	1.0	3.0	.8	.4							7.6	7.9
VARBL													
CALM												3.0	
	9.0	18.0	27.0	32.0	7.6	.4						100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 250



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 23-1 400 JAY ISLAND STATION NAME 13-74, 81 YEARS FEB  
 ALL WEATHER CLASS 08  
 HOURS 11 S Y

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.6	3.1	1.2								6.7	7.2
NNE	.6	3.7	2.1									7.4	6.7
NE		.6	.6	2.5	1.2							4.9	13.3
ENE	1.2	1.2	.6	2.5		.6						6.1	9.9
E		1.2	1.5	2.5	.6							6.1	10.6
ESE			.6	1.8	1.2							3.7	14.0
SE		.6	1.2	2.5								4.3	10.9
SSE			1.5	1.2	1.2							4.3	12.7
S		.6	3.7	3.7	.6							8.6	10.6
SSW		1.2	3.7	4.3	.6							9.6	10.4
SW	.6	.6	1.2	4.3	1.2	.6						8.6	12.4
WSW			1.2	2.1								4.3	11.6
W	.6	2.1	1.0	1.2	.6							7.4	8.2
WNW				4.3	.6							4.9	15.0
NW			1.2	1.2								2.5	10.5
NNW	.6	.6	1.2	1.2								3.7	8.7
VARBL													
CALM												6.7	
	6.5	14.1	27.0	37.4	6.0	1.2						100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 163

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION MIDWAY ISLAND STATION NAME 73-82 YEARS FEB  
ALL WEATHER  
CLASS  
07  
NOV 1957  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.7	1.4	.7								2.8	8.6
NNE	2.1	1.4	1.4									5.7	4.8
NE	.7	1.1	2.1	2.1	.7							6.7	9.9
ENE	.4	1.4	.7	1.4	.4	.4						4.6	10.0
E		1.4		1.1	.7							3.5	10.4
ESE		1.4	.7	1.8	.7							5.0	11.1
SE		.4	2.1	1.4								3.9	9.5
SSE	.4	.7	.7	1.8	.7							4.3	10.7
S	.4	.4	1.4	3.6								6.4	10.8
SSW		2.1	2.1	2.8	1.1							8.2	10.7
SW	.4	1.4	2.1	1.8	1.1	.7						7.8	11.3
WSW	.4	2.1	1.8	1.8								5.7	6.4
W	.7	2.1	3.2	3.5								9.9	9.8
WNW	.4	1.1	2.5	3.9	.4							8.2	10.9
NW		1.1	4.3	3.2	.7							8.2	11.3
NNW	.4	1.1	1.1	1.1								3.5	9.6
VARBL													
CALM												5.7	
	6.0	20.6	28.4	31.9	6.6	1.1						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 282



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 127.1 MIDWAY ISLAND STATION NAME 13-52 YEARS 1958 MONTH 10  
 CLASS ALL WEATHER  
 HOURS (L.S.T.) 19  
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	1.4	1.5	1.8								5.3	8.1
NNE	.7	1.1	1.1	1.1								3.9	7.9
NE		1.4	1.5	.7	.7	.4						5.0	10.7
NNE	.7		1.5	1.4		.4						4.3	10.5
E		2.5	1.4	1.1	.7	.4						6.0	10.7
ESE	.4	1.1	2.1	1.1	.4							5.0	9.5
SE		1.1	1.4	1.1	1.1							4.6	10.9
SSE		.4	.4	2.8								3.5	11.6
S	.7	2.1	1.5	4.3	.7							9.6	9.9
SSW	.4	1.1	2.1	2.8								6.4	10.0
SW		1.8	3.2	3.2	1.4	.4						9.9	11.6
WSW	.7	.4	.7	3.2	1.1							6.0	11.8
W	.7	1.4	3.5	3.9								9.6	12.1
WNW		.7	3.5	2.5	.4							7.1	10.6
NW	.4	1.3	.7	3.9	.4							7.1	10.3
NNW	.4	1.4	1.5	1.1								4.6	7.9
VARBL													
CALM												2.1	
	5.3	19.5	29.1	35.8	6.7	1.4						100.0	10.0

TOTAL NUMBER OF OBSERVATIONS 282

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 02711 MYCWAY ISLAND STATION NAME 73-87 YEARS FFB  
DATE 13  
MONTH 13 (L.S.T.)  
ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.2	1.1	.7								3.9	7.0
NNE	.7	2.1	3.5	1.1	.4							7.8	6.3
NE	.4	1.1	.7	1.4	.4	.4						4.3	10.8
NNE		.7	1.1	.7		.4						2.8	11.0
E	.4	1.1	2.4	1.4	.7							6.0	10.1
ESE			1.8	1.1	1.4		.4					4.6	14.5
SE		.7	2.5	2.1								5.7	9.5
SSE		.4		1.8	.7							2.8	13.5
S		1.2	3.5	3.2		.4						9.6	10.5
SSW		.7	2.1	1.4	1.1							5.3	11.3
SW		.7	2.4	2.2	1.8	.4						8.5	12.8
WSW		.7	2.4	2.8	.7							6.7	11.5
W	.4	2.1	3.5	3.2	.4							9.6	9.6
WNW			3.2	4.3								7.4	10.8
NW		1.4	2.5	3.2	.7							8.5	11.4
NNW		1.4	1.8	2.1	.7							5.7	10.6
VARBL													
CALM												.7	
	2.5	16.7	34.5	34.8	8.8	1.4	.4					100.0	10.4

TOTAL NUMBER OF OBSERVATIONS 282

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 0271 MILWAY ISLAND STATION NAME 23-22 YEARS FFB  
ALL WEATHER 16  
CLAS HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.1	.4	1.1								4.3	6.8
NNE	.4	1.3	2.1	.7		.4						5.3	9.0
NE	.4	.4	2.9	1.4	1.1							6.0	10.6
ENE	.4	.4		.7	.4							1.5	10.0
E		2.1	1.6	1.4	.7							6.4	10.0
ESE		.4	1.1	2.1	1.1		.4					5.0	13.6
SE		.7	1.1	.7								3.2	10.0
SSE	.4		1.4	1.8								3.5	10.5
S	.4	.7	3.2	4.6	.4	.7						9.9	11.4
SSW		.7	3.9	1.1	1.1							6.7	10.1
SW		.7	1.4	3.5	.7	.7						7.1	13.1
WSW		1.1	1.1	2.5	.4							5.0	10.8
W		2.5	5.3	5.0	.7							13.5	10.3
WNW	.7		1.4	4.6								6.7	11.7
NW	.4	.7	3.2	3.9								8.2	10.2
NNW	.4	1.3	2.1	1.4	.4							6.7	9.0
VARBL												.7	
CALM													
	1.3	16.3	33.7	36.5	6.7	1.8	.4					100.0	10.5

TOTAL NUMBER OF OBSERVATIONS 282

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73-82 MIDWAY ISLAND STATION NAME 73-82 YEARS 19 FFB 10  
MONTH 10  
ALL WEATHER CLM  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.2	.7	1.1		.4						5.7	7.9
NNE		2.5	1.1	.4	.4							4.3	7.7
NE	.7	.4	1.4	2.5								5.0	9.1
NNE	.7	1.9	1.6	.7		.4		.4				5.7	9.9
E		1.1	1.1	2.5	.4							5.7	10.6
ESE		.7	1.1	1.4	.7							3.9	11.8
SE	.4		.7	1.1								2.2	10.5
SSE		1.1	1.4	1.4	.4							4.3	10.2
S		2.5	3.0	3.6	1.1							11.1	10.8
SSW		1.1	2.5	1.4	.4							5.7	10.1
SW		1.4	1.8	1.4	.4							5.0	9.3
WSW		.7	.4	2.5	.4							3.9	12.3
W	.4	2.2	4.7	4.7	.7							13.3	9.5
WNW		.7	2.5	3.0								7.2	11.0
NW	.4	1.4	1.1	1.8	.7							5.4	10.3
NNW	1.1	2.5	2.5	2.5								8.6	8.3
VARBL													
CALM												2.9	
	4.3	23.7	29.7	33.0	5.4	.7		.4				100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 279

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 227.1 MIDWAY ISLAND STATION NAME 23-74.81 YEARS FEB  
MONTH 22  
CLASS ALL WEATHER  
COORDINATE

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	3.7	3.1	1.6								9.3	7.8
NNE	1.2	1.2	.6	.6								3.7	6.7
NE	.6	.6	2.5	2.5	.6							6.8	10.3
NNE		1.2	.6	1.9		.6						4.3	11.6
E			1.9	3.7	1.2		.6					7.5	15.2
ESE	.6	.6	1.9	1.2	1.2							5.6	10.7
SE	.6			1.2	1.2							3.1	14.0
SSE			1.2	3.1								4.3	12.1
S		2.5	2.5	1.9	.6							7.5	9.3
SSW	.6	1.2	5.0	1.9								8.7	8.6
SW	.6	1.2	2.5	.6	.6							5.6	8.9
WSW	.6	1.2	2.5	.6	.6							5.6	8.1
W	1.2	.6	2.5	2.5								8.5	9.3
WNW		.6	1.9	3.1								5.6	10.8
NW			.6	.6								1.2	10.0
NNW	1.2	.6	2.5	1.9								6.2	8.7
VARB													
CALM												8.1	
	3.1	15.5	31.7	29.2	6.2	.6	.6					130.0	9.2

TOTAL NUMBER OF OBSERVATIONS 161

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 22-1 MIDWAY ISLAND STATION NAME 73-82 YEARS FER  
ALL WEATHER ALL  
CONDITION NOON (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.4	1.4	1.2	.1	.1						5.0	7.7
NNE	1.0	2.1	1.9	.7	.1	.1						5.9	7.2
NE	.5	.9	1.7	1.7	.6	.1						5.5	10.2
ENE	.4	.9	.7	1.2	.2	.4		.1				3.9	10.4
E	.1	1.4	1.6	1.9	.7	.1	.1					5.9	10.9
ESE	.1	.7	1.4	1.7	1.0		.1					4.9	12.1
SE	.3	.5	1.4	1.3	.4							3.7	10.4
SSE	.1	.5	.2	2.0	.4							3.8	11.4
S	.2	1.5	3.0	3.9	.5	.7						9.2	10.4
SSW	.1	1.3	3.0	2.1	.6							7.1	10.1
SW	.2	1.3	2.1	2.6	1.1	.4						7.6	11.5
WSW	.2	.2	1.4	2.3	.5							5.4	10.7
W	.7	2.0	3.4	3.5	.3							9.9	9.4
WNW	.2	.5	2.2	3.7	.2							6.3	11.2
NW	.2	.8	1.9	2.8	.4							6.0	10.4
NNW	.6	1.5	2.1	1.5	.2							5.9	8.7
VARBL													
CALM												3.4	
	5.4	18.6	30.4	33.9	7.0	1.1	.2	.1				100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 1981

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 2701 STATION NAME MIDWAY ISLAND YEARS 77-82 MAP NORTH  
CLASS ALL WEATHER HOURS (L.S.T.) 01  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.4	2.4	1.4	1.0								6.2	6.3
NNE		3.4	1.3	.3								4.1	5.8
NE	.3	1.4	2.4	1.7	.3							6.2	9.6
ENE	1.4	2.1	2.1	3.4	.7							9.6	9.3
E		1.0	6.2	6.5	.7							14.4	11.0
ESE	.3	2.1	2.7	1.7	.7							7.6	9.1
SE	.7	1.4	1.4	1.7	.7							5.5	9.5
SSE	.3	.7	2.1	1.4	.7							5.2	10.7
S		1.0	5.2	3.4	.3							10.0	9.7
SSW	.7	.7	3.1	1.4								5.8	8.4
SW		1.0	2.1	1.7	.3	.3	.7					5.8	12.2
WSW		.7		.3								1.0	8.3
W	.3	1.4	1.4	1.7		.3						5.2	9.7
WNW	.3	.3	1.0	.3								2.1	8.3
NW		.3	1.4	.7		.7						3.1	12.9
NNW	.3	1.4	1.0	1.0								3.8	7.5
VARB.													
CALM												4.5	
	7.8	21.3	33.7	28.5	4.5	1.4	.3					100.0	9.1

TOTAL NUMBER OF OBSERVATIONS 291

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 27-1 MIDWAY ISLAND STATION NAME 73-77,81 YEARS 73-77,81 MAG 73  
NORTH 09  
CLASS ALL WEATHER  
CONDITION   
HOUSE (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.6	1.6	1.6	1.6								6.5	7.5
NNE	.5	2.7	4.3									7.5	7.4
NE	1.6	3.2	3.2	2.7								11.3	7.6
ENE		4.3	2.7	1.6	1.6	.5						10.8	10.2
E		2.2	2.7	3.2	.5							8.6	10.1
ESE		1.1	2.7	2.2	.5							6.5	9.7
SE		.5	3.2	3.8	.5							8.1	10.8
SSE	.5	1.1	.5	2.2	.5							8.8	10.0
S		.5	.5	6.8	.5							8.1	12.9
SSW		7.2	2.2	1.1								5.4	8.9
SW			1.6	1.1								2.7	10.4
WSW		1.6	1.6	.5	.5							4.3	9.5
W		.5	2.2	.5		1.1						8.3	12.1
WNW	1.1	.5	1.1									2.7	5.8
NW			.5	.5	.5							1.6	12.3
NNW		1.6	1.1		1.1							3.9	9.6
VARBL													
CALM												3.2	
	5.4	23.7	32.3	27.4	6.5	1.6						100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 186

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION WILKEY ISLAND STATION NAME 73-32 YEARS MAR  
MONTH 37  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.3	2.3	.7								6.5	5.8
NNE	.6	3.5	2.6	.3								7.1	6.4
NE	1.2	2.3	1.2	1.6	.3							7.1	7.0
NNE	1.0	3.2	2.6	1.6	1.0							10.0	8.5
E	.3	3.2	4.5	3.5								11.5	8.8
ESE	.4	1.2	2.4	2.6								8.1	8.5
SE		1.6	1.2	2.6								6.1	9.5
SSE		1.3	2.6	1.2	.3							5.2	9.1
S	1.0	1.0	2.9	3.9	.6							9.4	10.2
SSW	1.7	1.0	1.3	2.3	.6							6.1	10.2
SW		1.0	1.6	1.0								3.5	8.4
WSW			1.0	.6	.3							1.0	13.3
W	.3	.6	1.2	1.0	.3							4.2	2.5
WNW		.3	1.6	.3								2.3	9.1
NW		.3	1.2		.6							1.3	11.3
NNW	.3	1.0	1.3	1.3								3.9	8.8
VARB													
CALM												5.2	
	2.4	24.5	32.9	23.9	4.2							100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 310

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION MIDWAY ISLAND STATION NAME 73-80 YEARS 442  
ALL WEATHER 10  
ELAB HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.0	3.5	.6								6.1	7.9
NNE	.3	1.6	1.0	.6								4.5	6.9
NE	.7	1.6	1.0	1.3								5.2	8.1
ENE	.6	3.0	1.3	2.0	1.3	.3						10.3	9.7
E	.7	1.3	5.4	3.0		.7						11.6	9.9
ESE	.4	3.2	2.4	3.2	.3							10.0	9.0
SE	.6	1.3	2.3	1.6								5.8	7.9
SSE	.5	.3	2.3	1.6	1.0	.7						6.1	11.3
S	.6	1.0	4.5	3.2	1.6							11.7	10.7
SSW	.7	1.3	2.4	2.6	.3							7.1	9.7
SW	.6	.3	2.3	.3	.3							3.5	9.5
WSW		.6	1.3	.3	.3							2.6	10.4
W	.7	.3	1.0	.6		.3						3.5	10.3
WNW	.7		.6	.3	.3							1.6	10.2
NW		.3	1.0	1.3								2.6	10.4
NNW	1.0	1.0	1.0	.3								4.2	6.6
VARBL													
CALM												3.2	
	6.1	21.0	38.1	24.2	5.5	1.3						100.0	9.1

TOTAL NUMBER OF OBSERVATIONS 310

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1271 STATION NAME MIDWAY ISLAND YEARS 77-82 MONTH MAP NORTH  
CLASS ALL WEATHER HOURS (LST) 13  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.2	1.0	1.0								4.8	8.5
NNE	.7	1.3	2.9	1.3								5.8	8.1
NE	.5	.6	2.5	1.9	.6							6.5	10.2
ENE		1.0	2.9	1.9	.6							6.5	10.7
E		3.5	5.8	3.9	.6	.7						14.2	9.7
ESE	.8	.7	8.2	2.9								8.4	9.3
SE	.7	1.6	1.0	1.0	.6							4.5	8.9
SSE	.7	1.7	3.2	1.6	.6	.7						7.4	10.0
S	1.0	1.6	2.9	3.5	1.0							10.0	10.0
SSW	.6	.6	3.9	3.5	.6							9.4	10.7
SW	.3	.6	2.7	1.0	.7							4.5	9.4
WSW	.3		1.0	.6								1.9	9.3
W	.7	.3	1.3	.3	1.0							3.2	10.5
WNW	.3	.3	1.0	1.3	.3							3.2	9.6
NW	.3	.6	1.0	1.0	.3	.7						3.5	10.5
NNW	1.0	1.0	2.9	.3								5.2	7.0
VARBL													
CALM												1.0	
	6.5	17.1	40.6	27.1	6.3	1.0						100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 310

8805



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION MITCHELL ISLAND STATION NAME MITCHELL ISLAND YEAR 1962 MAP 16  
EASTING 16 NORTH 16  
HOURS (LST) 16  
ALL WEATHER CLAM  
CONDITION CLAM

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.2	2.6	2.0									5.5	6.6
NNE	0.4	1.6	3.2	1.6								7.1	9.1
NE		1.6	2.0	1.6	0.3							6.5	9.7
ENE	0.3	1.6	2.0	2.6	0.3							6.1	9.5
E		1.6	4.5	4.5	1.0							11.4	10.7
ESE	0.6	2.0	4.5	1.6								10.0	7.8
SE	1.0	1.6	1.3	1.3		0.3						5.2	6.3
SSE	0.6	1.6	0.6	1.3								3.5	6.3
S		2.6	4.5	3.5	1.0	0.3						12.3	10.4
SSW	0.1	1.3	1.3	2.0	1.0							7.4	10.9
SW		0.6	1.3	0.6	0.3							2.9	9.9
WSW	0.6		1.3	0.6								2.4	8.8
W	0.2	0.6	1.3	0.3	1.0							3.5	10.4
WNW		1.6	0.3	1.6	0.3							3.2	10.0
NW	0.6		1.0	1.0	0.3							3.9	9.1
NNW	0.3	0.6	2.0	0.3								3.5	8.0
VARBL													
CALM												1.5	
	5.8	22.5	36.1	23.5	5.5	0.6						100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 110



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 72-1 MOOREY ISLAND STATION NAME 72-22 YEARS MAR  
CLASS ALL WEATHER MONTH 19  
COMBINATION NOV 1957

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.6	2.6	1.7								6.1	7.5
NNE	.4	2.5	2.6	.3								4.1	6.8
NE	1.7	1.6	3.9	1.6	.3							3.4	8.7
ENE	.1	2.4	4.7	3.2	.6							11.9	9.5
E		1.4	5.5	4.8	.3			.3				13.5	10.4
ESE	.4	3.2	2.7	1.0								7.1	6.8
SE	.3	1.3	1.1	2.3								4.8	9.7
SSE	.4	1.3	1.6	1.0	.3							4.2	8.3
S	.7	1.7	3.8	2.3	.6							3.1	9.8
SSW	.6	.6	1.6	2.6	.6							6.1	10.9
SW		.6	1.5	1.6	.6							4.8	11.3
WSW	.1	.6	1.9	.3								3.2	7.8
W	.3		.6	1.7								1.9	9.7
WNW	.7	.3	.6	.3	.3							1.9	9.3
NW			1.6	1.9	.3		.3					4.2	13.5
NNW	.4	1.3	1.7	.3								4.2	7.5
VARBL													
CALM												2.6	
	7.4	21.0	37.4	24.1	4.2		.3	.3				100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 310



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION STANLEY ISLAND STATION NAME STANLEY ISLAND YEARS 77-77, 81 MAP 22  
CLASS ALL WEATHER MONTH 22  
CONDITION ALL WEATHER HOURS (L.S.T.) 22

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	4.2	2.7	1.1								9.1	6.6
NNE	.7	3.8	2.7	1.1								8.1	6.8
NE	.7	1.1	2.7	5.4	.5							10.2	11.0
ENE		2.7	2.8	3.8	1.6							11.5	10.5
E		1.1	7.2	3.2	2.2							12.2	11.4
ESE	.7	1.1	3.2	.5								5.4	5.1
SE	.7	2.2	1.1	4.3								8.1	9.9
SSE		.7	2.2	1.6								4.7	10.0
S		.7	7.2	2.7								6.5	1.7
SSW	1.1	2.2	.7	2.7		1.1						7.5	1.5
SW		1.1	1.1	2.2								4.7	1.1
WSW	.7	.5										1.1	3.5
W	1.1	1.1	.5	1.1	.5							4.3	5.7
WNW			.5	.5								1.1	12.7
NW		.7	.5	.5	.5							2.8	11.3
NNW		1.1	.5	1.1	.5	.5						3.8	11.1
VARBL													
CALM												2.7	
	7.4	24.7	29.7	31.7	5.4	1.6						100.2	6.6

TOTAL NUMBER OF OBSERVATIONS 100

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1071 MIDWAY ISLAND STATION NAME 77-82 YEARS MONTH ALL HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.7	2.3	2.3	.9								6.2	7.1
NNE	.5	2.5	2.5	.7								6.1	7.1
NE	.5	1.6	2.6	2.0	.3							7.3	9.0
ENE	.4	2.6	2.6	2.7	.9	.1						9.7	9.6
E	.1	2.2	5.7	4.3	.6	.1		.7				12.3	10.2
ESE	.5	2.1	3.2	2.7	.2							8.1	8.5
SE	.4	1.5	1.6	2.1	.2	.7						5.9	9.3
SSE	.4	.4	1.0	1.4	.5	.1						5.2	9.8
S	.4	1.4	3.6	3.5	.8	.7						9.8	10.4
SSW	.6	1.1	2.2	2.4	.5	.1						6.9	10.2
SW	.1	.7	1.0	1.1	.3	.7	.2					4.1	10.3
WSW	.2	.5	1.7	.5	.1							2.3	9.2
W	.4	.6	1.4	.9	.4	.7						3.7	10.0
WNW	.7	.5	.4	.6	.2							2.4	9.2
NW	.1	.3	1.2	.9	.3	.1	.7					3.7	11.3
NNW	.5	1.1	1.7	.6	.1	.7						4.7	7.9
VARBL													
CALM												2.0	
	1.6	1.9	35.1	26.6	5.2	.9	.1	.7				100.7	9.1

TOTAL NUMBER OF OBSERVATIONS 2213

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 2071 MIDWAY ISLAND STATION NAME 73-20 YEARS APR  
MONTH 01  
CLASS ALL WEATHER  
HOURS (L.S.T.) 01  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.0	1.7									3.3	6.2
NNE	1.0	2.0	4.7	1.0								8.7	7.9
NE	1.7	3.3	3.7	2.7								11.3	7.8
ENE	2.7	3.7	8.7	6.0	1.0							20.7	9.2
E	.7	3.7	8.7	8.7	1.3							21.7	10.4
ESE	1.3	2.0	3.0	2.7		.7						9.3	8.5
SE	.7	.7	2.0	1.3								4.7	8.3
SSE	1.0	1.0	1.3	.7								4.0	6.6
S	.7	2.0	1.0	.7								4.0	6.4
SSW	.3	.7	1.3									2.3	6.3
SW		.7	.3									1.0	6.3
WSW	.3		.7									1.0	6.7
W	1.7											1.7	2.5
WNW	1.0			.7	.3							1.7	7.4
NW			.7	.3								1.0	7.3
NNW		.7	.7	.3								1.7	8.4
VARBL													
CALM												2.3	
	12.3	21.3	37.0	24.0	2.7	.3						100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 300

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

27 1  
STATION

MIDWAY ISLAND

STATION NAME

73-77,81-82

YEARS

APD

NORTH

ALL WEATHER

CLASS

04

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.1	3.7									5.1	6.2
NNE	1.1	2.2	2.5	1.1								7.7	7.1
NE	1.7	1.7	3.0	3.9								11.0	9.1
ENE	1.1	1.7	6.6	9.4	1.7							20.4	10.6
E		2.2	5.8	9.3	.6							19.0	10.6
ESE	.6	.6	3.3	3.0								8.3	10.6
SE	1.1	1.1	2.2	2.2								6.6	7.4
SSE	.5	.6	.6	.6								2.2	6.3
S		2.2	1.1	.6								3.9	7.3
SSW		.6	1.1									1.7	7.0
SW	.1	1.1	1.1									2.8	6.6
WSW		.6		.6								1.1	7.5
W	.6											.6	2.0
WNW	1.1	.6		.6								2.2	5.8
NW		.6				.6						1.1	13.0
NNW	.6	.6	2.2	.6								3.9	7.0
VARBL													
CALM												2.2	
	2.4	17.1	37.0	31.5	2.2	.6						100.0	8.9

TOTAL NUMBER OF OBSERVATIONS

101

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 071 MIDWAY ISLAND STATION NAME 73-02 YEARS 4P  
CLASS ALL WEATHER MONTH 07  
CONDITION NOVEMBER (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	2.3	.7								5.0	6.9
NNE	1.3	3.7	5.0	.3								10.3	6.5
NE	.7	4.0	3.3	3.7								11.7	8.4
ENE	.7	4.0	7.3	5.3	.3							17.7	8.8
E	.7	3.3	7.3	8.0	1.0							20.3	9.9
ESE	.7	.3	1.0	2.0	.3							4.0	10.7
SE	.7	1.7	3.7	1.0	.3							7.3	8.4
SSE	1.0	.7	2.0	1.0								4.7	7.9
S	.7	2.3	1.0	.3	.3							4.7	6.9
SSW	.3	1.0	1.0									2.3	5.7
SW	.3	.7	1.0									2.0	6.7
WSW													
W	.3	.7										1.0	4.3
WNW	.7	.3										.7	3.0
NW		.7		.3								.7	8.5
NNW		1.0	1.3		.3							2.7	8.1
VARS													
CALM												5.0	
	5.0	25.0	36.3	22.7	2.7							100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 300

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1271 MIDWAY ISLAND STATION NAME 73-82 YEARS APR MONTH 10 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.7	4.3	.3								6.3	7.4
NNE	.3	2.7	3.0	2.0								8.0	8.1
NE	.7	2.0	3.7	4.3	.3							11.0	9.5
ENE		3.7	7.7	3.7	1.7							16.7	9.9
E	1.3	1.7	10.7	7.3	.7							21.3	10.2
ESE	.3	1.0	4.0	3.7								9.0	9.5
SE	1.0	1.3	2.3	1.0								5.7	7.3
SSE	.3	1.0	1.7	1.0								4.0	7.9
S	.7	4.3	1.3	.3	.3							6.7	6.8
SSW		.3	.7	.3	.3							1.7	11.0
SW		.7	1.0									1.3	7.5
WSW		.7	.3									1.0	6.7
W	.3	.3										.7	3.0
WNW	.3	.7	.7									1.7	5.0
NW			.3	.7								1.0	11.7
NNW		.7	.7	.3	.3							2.0	10.0
VARBL													
CALM												2.0	
	1.0	22.3	42.0	25.0	3.7							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 370

SMOS



**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

2101	MIDWAY ISLAND	73-82	APR
STATION	STATION NAME	YEARS	MONTH
	ALL FATHER		13
	CLASS		HOUSE (L.S.T.)
	CONDITION		

[illegible]

TOTAL NUMBER OF OBSERVATIONS 320

**SMOS**



3  
21000432

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1271 MIDWAY ISLAND STATION NAME 73-82 YEARS AP -  
ALL WEATHER NORTH  
CLAS 16  
CONDIT HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	3.3	.3								5.0	7.5
NNE	.7	2.3	5.7	1.0								9.7	7.9
NE		2.7	4.3	5.3	.3							13.7	9.9
ENE		2.7	6.3	4.3	1.7							15.0	10.3
E		1.7	10.3	8.3	1.7							21.3	11.2
ESE		1.7	3.3	2.7								7.7	9.0
SE	.7	1.3	2.0	1.0								5.0	7.6
SSE	.3	1.3	1.7	.3								3.7	7.5
S	.3	1.7	1.3	.3		.3						4.0	5.0
SSW	.7	.7	1.0									2.3	5.6
SW		1.0	1.0	.3								2.3	7.0
WSW				.3								.3	11.0
W	.7	1.0										1.7	3.8
WNW	.7	1.0	.3	.3	.3							2.3	5.3
NW		.3	.3	.7								1.3	9.8
NNW	.7	1.3	2.0	.7								4.3	7.7
VARBL													
CALM												.3	
	4.7	21.3	43.0	27.0	3.3	.3						100.0	9.1

TOTAL NUMBER OF OBSERVATIONS 300

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 271 MICKEY ISLAND STATION NAME 73-80 YEARS APR  
MONTH 10  
HOURS (L.S.T.) 10  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	1.3	2.7	1.0								5.7	7.8
NNE	.7	2.0	4.7	1.3								6.3	5.0
NE	.7	4.3	7.7	2.0	.7							14.7	6.3
ENE	.7	1.7	8.0	8.7	1.0							20.0	10.6
E	2.3	4.0	9.7	5.0	1.0							22.0	3.7
ESE	.7	1.0	1.3	3.0								5.7	10.0
SE	.7	.7	3.0	.7								5.7	7.4
SSE	.7	1.0	1.0	.7								3.3	6.7
S	2.0	1.7	.3	.3		.3						4.7	5.9
SSW	.7	1.0	.7									1.7	5.6
SW		1.0	.3	.3								1.7	6.8
WSW		.7	.7									1.0	3.3
W		.3	.7									.7	5.5
WNW	.7	.3		.7								1.0	7.0
NW	.3	.7		.3								1.0	7.7
NNW	.7		2.0	.3								2.7	8.1
VARBL													
CALM												1.0	
	2.2	21.0	41.7	24.0	2.7	.7						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 700

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 2701 HINCHY ISLAND STATION NAME 73-77, 81-82 YEARS APR  
CLASS ALL WEATHER MONTH 22  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.7	2.0	.6								6.4	1.6
NNE	.7	2.0	1.7	1.1								6.1	7.2
NE	.6	2.0	5.0	3.9	1.1							13.7	4.8
ENE		2.0	0.8	9.9	2.2							23.7	11.0
E	1.1	2.2	5.6	12.2	1.7							22.7	1.0
ESE		1.7	2.2	2.0								6.6	9.9
SE	.6	.6	1.1	.6								2.0	7.4
SSE	.5	1.1	1.1	.6								2.3	7.0
S		1.1	1.7									2.0	6.4
SSW	.6	1.1	.6									2.2	4.7
SW		.6	.6									1.1	6.5
WSW			.6	.6								1.1	6.5
W	.6	.6			.6							1.7	9.3
WNW													
NW													
NNW	.6			.6	.6	.6						2.0	13.5
VARBL													
CALM												3.0	
	4.6	10.6	31.5	32.6	6.1	.6						100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 121

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73-50 MIDWAY ISLAND STATION NAME 73-50 YEARS APR  
MONTH ALL  
CLASS ALL WEATHER  
CONDITION ALL  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.1	2.5	.5								5.1	7.4
NNE	.7	2.3	4.0	1.3								2.3	7.6
NE	.6	3.5	4.4	3.7	.5							12.3	2.1
ENE	.5	2.7	7.2	6.5	1.3							12.7	10.2
E	.5	2.0	5.6	8.7	1.0							11.3	10.2
ESE	.5	1.2	2.7	3.1	.1	.7						7.6	9.6
SE	.7	1.0	2.5	1.1	.0							5.6	7.8
SSE	.4	.9	1.6	.6								3.7	7.3
S	.5	2.3	1.1	.5	.1	.1						4.7	6.8
SSW	.3	.9	.2	.1	.0							2.2	5.6
SW	.1	.4	.0	.1								1.7	7.1
WSW	.0	.2	.1	.1								.7	7.9
W	.6	.7	.1		.0							1.3	4.8
WNW	.1	.4	.2	.2	.1							1.3	5.4
NW	.1	.3	.4	.4	.0	.0						1.2	5.4
NNW	.2	.6	1.2	.4	.2	.7						2.8	5.6
VARBL													
CALM												2.0	
	7.7	20.9	39.1	26.5	3.6	.2						100.1	5.7

TOTAL NUMBER OF OBSERVATIONS 2102

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION MT. AIRY ISLAND STATION NAME 73-P YEARS 1971 DAY 01  
 CLASS ALL WEATHER  
 CONDITION   
 MONTH  HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												1.0	5.5
NNE	1.0	3.0	1.0									7.0	5.3
NE	1.0	1.0	2.0	2.3								6.3	2.1
ENE	3.0	3.2	2.1	5.2								15.1	7.5
E	1.0	3.9	2.4	3.2								16.7	7.9
ESE		3.2	2.7	1.9	.3							9.1	3.4
SE	1.2	1.3	3.2	1.6								6.1	7.8
SSE		1.2	3.2	1.2								5.3	7.9
S		1.0	1.9	.3								4.5	4.9
SSW			1.6	1.0								3.2	.7
SW			.3	.3								1.0	2.3
WSW													4.5
W				.3								1.0	7.0
WNW												.3	1.5
NW		.3	1.0									1.0	4.0
NNW		1.0	.6									2.3	5.1
VARBL													
CALM												6.1	
	14.0	24.3	35.0	17.8	.3							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 200

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME MOORE ISLAND YEARS 77-77.81 MONTH MAY  
CLASS ALL WEATHER  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.5	1.1				.5					3.2	5.5
NNE	1.1	1.1	1.1	1.1								5.4	5.9
NE	1.1	.5	4.4	4.9								10.9	9.5
ENE	.5	2.2	5.4	2.7	.5							11.4	5.6
E	.5	7.2	5.4	4.3								13.5	5.8
ESE	.5	4.2	2.7	2.7		.5						10.5	9.0
SE		7.2	4.7	1.6	.5							9.7	8.6
SSE		1.1	1.1	1.6								4.3	9.3
S	1.1	2.7	4.9	1.6								10.5	7.7
SSW	.5	7.2	.5	.5								4.7	6.7
SW	.5	1.1	.5	1.1								2.2	7.8
WSW		.5										.5	9.7
W		1.1		.5								2.2	5.2
WNW		1.1		.5								1.1	7.7
NW			.5									.5	7.7
NNW	.5	.5	.5									1.1	5.7
VARBL													
CALM												5.4	
		5.1	32.4	23.2	1.1	.5	.5					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 11

SMOS



24

24

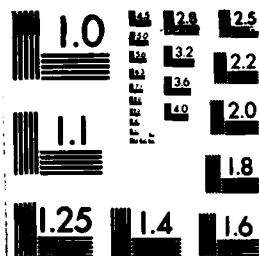
24

24

24

A 10x10 grid of squares, with the top-left square missing.





MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 127-1 MIDWAY ISLAND STATION NAME 73-82 YEARS MAY  
ALL WEATHER MONTH 07  
 CLASS NOVEMBER (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.6	.6									3.6	4.2
NNE	.6	1.3	3.2	.3								5.5	6.9
NE	1.6	2.3	4.2	2.9								11.0	7.8
ENE	1.3	4.3	4.2	4.5								14.0	9.1
E	1.0	5.1	6.1	3.9								17.1	7.8
ESE	.6	1.2	1.6	2.3								7.7	7.8
SE	.6	1.3	3.2	1.3								6.5	8.0
SSE		.3	1.0	1.7	.3							3.5	9.5
S	1.3	1.7	2.9	1.0								7.1	7.1
SSW		1.0	1.0	.6								2.6	8.6
SW		1.0	.6	1.0								2.6	8.1
WSW	.3	.3	.3									1.0	5.3
W	.3	.6	1.0									1.6	6.3
WNW	.3	.3	.3									1.0	5.7
NW	.3	1.0	.6									1.6	5.2
NNW	.6	1.0	1.0									3.6	5.5
VARBL													
CALM												8.7	
	10.6	28.1	33.9	18.7	.3							100.7	6.8

TOTAL NUMBER OF OBSERVATIONS 310

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

427-1 MIDWAY ISLAND

STATION NAME

73-82

YEARS

MAY

MONTH

ALL WEATHER

CLASS

10

BORES (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.6	1.0									2.0	5.1
NNE	.3	3.2	2.3	.6								6.5	6.4
NE	1.3	1.6	6.1	2.3	.3							11.4	8.4
ENE		1.0	6.8	6.5	.3							15.5	9.9
E	.3	4.2	7.7	4.5								17.4	8.6
ESE	1.0	1.3	2.2	2.6	.3							8.1	9.0
SE	.6	2.3	3.5	1.6	.6							6.7	8.6
SSE	1.3	1.3	1.5									4.5	6.0
S	1.3	2.6	2.6	1.3		.3						8.1	7.6
SSW		1.3	1.6	.3	.3							3.5	6.5
SW		.3	.3	1.0								1.6	10.4
WSW		.3	.6									1.3	6.3
W	.6	.3	1.3									2.3	5.7
WNW	.3	.3		.3								1.0	6.7
NW	.6	1.0	1.3	.3								3.2	6.4
NNW	.3	1.6	.6	.6								3.2	6.6
VARIABLE													
CALM												1.0	
	8.4	25.3	40.6	21.9	1.9	.3						100.2	8.1

TOTAL NUMBER OF OBSERVATIONS

310

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 22701 MIDWAY ISLAND STATION NAME 73-82 YEARS MAY  
MONTH 13  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.9	.6									2.9	5.1
NNE	.6	1.9	4.2	.6								7.4	7.2
NE	.3	1.6	5.2	4.2	.3							11.6	10.1
ENE	.6	1.9	5.8	4.2	.3							12.9	9.6
E	.3	4.5	6.5	5.8								17.1	9.3
ESE	.6	3.2	4.2	1.3	.6							10.0	8.3
SE	1.0	2.3	2.3	2.9	.3							8.7	8.5
SSE	.6	3.5	2.3	.6	.3							7.4	7.0
S		2.3	2.0	.6								5.6	7.5
SSW		.3	1.3	.6	.3							2.6	10.9
SW		.6	.3	1.3								2.3	11.0
WSW		.6	.3									1.0	6.0
W	.6	1.3	.3	.3								2.6	5.3
WNW	.3	.3	1.3									1.9	5.2
NW	.6	1.6	.3									2.6	5.0
NNW	.3	1.0	.6	.3								2.3	6.7
VARBL													
CALM												1.0	
	6.5	29.0	36.4	22.9	2.3							100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 310

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 2271 MIDWAY ISLAND STATION NAME 73-82 YEARS MAY  
ALL WEATHER MONTH 16  
CLAS DAYS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.6	.6	.3								3.5	5.5
NNE	1.0	1.6	1.3	1.6								5.5	7.6
NE	.6	3.5	6.5	2.3	.3							13.2	8.3
NNE	.3	1.0	6.1	6.1								14.5	10.0
E	.3	4.2	7.4	6.1								18.1	9.1
ESE		1.9	2.6	1.3	.3							6.1	9.2
SE		3.2	4.5	1.6	.3							9.7	8.9
SSE	1.0	1.0	1.6	.6								4.2	6.5
S	.3	.6	2.3	.3								3.5	7.6
SSW	.6	1.6	1.9	1.3	.3							5.6	7.9
SW		1.3	.6	1.3								3.2	8.8
WSW		.3										.3	8.0
W	.6	.6	1.6									2.7	8.0
WNW	.3	1.3	.3									1.9	5.0
NW	.6	1.3	.6									2.6	5.1
NNW	.3	1.0	1.0	1.0								3.5	7.0
VARBL													
CALM												1.3	
	7.1	27.1	39.4	23.9	1.3							100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 310

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 127-1 MIDWAY ISLAND STATION NAME 73-82 YEARS MAY  
CLASS ALL WEATHER MONTH 19  
CONDITION 19  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	1.0	.6	.3								3.2	5.4
NNE	3.0	2.6	3.2	.3								10.7	5.3
NE	1.3	3.2	4.5	3.9								12.9	8.4
ENE	1.0	3.5	6.1	2.9								13.5	8.3
E	1.6	3.5	9.4	5.5								20.0	8.6
ESE	.3	1.3	4.8	.6		.3						7.4	8.7
SE	.3	3.0	2.3	1.0								6.8	7.1
SSE		1.0	1.6	1.3	.3							4.2	9.7
S	1.0	1.0	1.6									3.5	5.8
SSW	.3	1.3	1.3	1.0								3.9	8.2
SW			.6	1.0								1.6	10.4
WSW	.6	.6										1.3	3.3
W	1.6	1.9	.6									4.2	4.2
WNW	.6	.3										1.0	2.7
NW	.6	1.3	.6	.3								2.2	5.7
NNW	.6	1.0	.6	.3								2.6	5.8
VARBL													
CALM												1.0	
	15.2	26.3	18.1	18.4	.3	.3						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 310

8808



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 271 MIDWAY ISLAND STATION NAME 73-77.81 YEARS MAY  
CLASS ALL WEATHER MONTH 22  
CONDITION 22 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.5	.5									1.1	7.0
NNE	7.0	.5	1.1	.5								5.0	4.8
NE		2.7	3.0	3.2								9.7	9.5
ENE	1.1	1.1	5.4	4.8								12.4	9.7
E	7.2	2.7	8.6	5.9								19.4	8.4
ESE		3.5	4.9	2.2	.5			.5				11.5	10.7
SE	.5	2.2	3.2	2.7								8.6	8.9
SSE	.5	1.6	2.2	1.6								5.9	7.8
S	.5	2.2	2.2									4.9	5.4
SSW		1.1	2.2	1.1								4.3	5.8
SW	.5	.5	1.1									2.2	6.3
WSW	.5	.5										1.1	4.5
W	.5	1.1	.5	.5								2.7	6.6
WNW	1.1	1.1	.5									2.7	4.2
NW		.5	.5	.5								1.6	8.7
NNW		1.1										1.1	5.0
VARB													
CALM												4.0	
	11.3	23.1	36.6	23.1	.5			.5				100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 196

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 02701 MIDWAY ISLAND STATION NAME 73-62 YEARS MAY  
 CLASS ALL WEATHER  
 CONDITION ALL  
 MONTH MAY  
 HOURS (L.S.T.) ALL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.3	.7	.1			.0					2.9	5.7
NNE	1.6	2.2	2.3	.7								6.8	6.2
NE	1.0	2.2	4.9	3.1	.1							11.3	8.7
ENE	1.1	2.7	5.9	4.7	.1							14.5	9.0
E	.9	4.3	7.4	4.9								17.4	8.6
ESE	.5	2.6	3.3	1.8	.3	.1		.0				8.6	8.8
SE	.6	2.4	3.3	1.7	.2							8.3	6.4
SSE	.5	1.4	2.0	.9	.1							5.0	7.8
S	.8	1.8	2.6	.6		.0						5.8	7.1
SSW	.2	1.2	1.4	.8	.1							3.8	8.3
SW	.1	.6	.5	.9								2.2	9.0
WSW	.2	.5	.2									.9	5.1
W	.6	.9	.7	.2								2.5	5.6
WNW	.4	.5	.3	.1								1.4	5.1
NW	.5	.9	.7	.1								2.3	5.8
NNW	.4	1.0	.8	.3								2.4	6.2
VARBL													
CALM												3.9	
	10.3	26.6	37.0	21.0	1.0	.1	.0	.0				100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 2230

SMOS





3

700042

700

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 271 STATION NAME MIDWAY ISLAND YEARS 72-82 MONTH JUN  
CLASS ALL WEATHER  
CONDIION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0										2.0	3.3
NNE	.7	1.0										1.0	5.0
NE	1.7	1.7	2.3	1.0								6.7	6.5
ENE	2.3	6.0	6.0	3.7								18.0	7.2
E	2.3	6.3	9.0	4.0								21.7	7.6
ESE	1.7	3.7	2.3	.3								8.0	5.8
SE	1.3	2.0	1.3	1.0								5.7	6.5
SSE	.7	1.0	.7									2.3	5.7
S	1.7	1.0	0.3	.3								2.3	6.0
SSW	1.0	2.3	1.0	.7	.3							5.3	7.0
SW	.7	1.3	.3	.7								2.7	7.3
WSW		2.7	2.0	.3								5.0	6.6
W	.3	2.3	.3									3.0	5.0
WNW	1.0	1.3										2.3	3.4
NW	.7	.3	.3									1.3	4.0
NNW	.3	.3	.7									1.3	6.5
VARBL													
CALM												8.0	
	15.7	34.3	29.7	12.0	.3							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 300

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: 0270 MIDWAY ISLAND STATION NAME: 73-77.81 YEARS: JUN  
 CLASS: ALL WEATHER MONTH: 04  
 CONDITION: HOURLY (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6										.6	4.0
NNE	2.4	.6										3.3	1.5
NE	1.7	.6	.6	1.1								3.9	7.3
ENE	2.2	2.9	3.9	1.7								11.1	6.6
E		2.9	4.4	2.2								9.4	3.5
ESE	1.7	5.6	.6	.6								8.3	5.1
SE	2.2	2.2	1.7	2.2								8.9	7.1
SSE	1.1	.6	1.7	.6								3.9	6.4
S		4.4	1.7	.6								6.7	6.5
SSW	1.7	1.1	1.7	1.7	.6							6.7	8.5
SW	1.7	3.9	3.9	.6								9.4	6.3
WSW	.6	2.8	3.9	.6								7.8	5.7
W	1.1	2.2	1.1									4.4	4.6
WNW		.6										.6	4.5
NW		1.1		.6								1.7	7.7
NNW	.6	.6	1.1									2.2	6.5
VARBL													
CALM												11.1	
	17.8	32.8	25.6	12.2	.6							100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 100

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1271 MIDWAY ISLAND STATION NAME 75-32 YEARS JUN  
MONTH 07  
HOURS (LST) 07  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.7	.7									1.2	5.7
NNE	2.0	1.3	1.3									4.7	4.2
NE	1.3	1.3	2.7	1.0								6.4	7.1
ENE	2.3	5.4	6.4	2.7	.7							17.4	7.6
E	2.0	3.3	10.7	3.0								20.1	7.5
ESE	.7	1.7	2.0	.3								4.0	6.6
SE	1.7	2.3	2.7	1.0								6.7	6.9
SSE	1.0	.7	1.3	.7								3.7	7.1
S	1.7	3.0	1.0	.3								6.0	5.2
SSW		2.0	2.7	.3	.3							5.4	5.4
SW	.3	2.0	3.3	.3								6.0	7.0
WSW	1.7	.7	1.0	.3								3.3	5.6
W	1.7	1.7	.7									4.0	4.5
WNW	.7											.7	1.5
NW	.7	.3	.7									1.7	5.8
NNW	.3	1.3										1.7	4.0
VARB													
CALM												7.4	
	19.1	27.4	36.1	10.0	1.0							100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 209

SMOG



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 27-1 MIDWAY ISLAND STATION NAME 73-52 YEARS JUN  
CLASS ALL WEATHER MONTH 10  
CONDITION 10 HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	.7									1.7	4.0
NNE	.7	1.3	.7									2.3	5.1
NE		1.3	2.7	1.0								5.7	8.1
ENE	2.7	2.0	8.3	5.7								18.0	8.9
E	.7	4.3	9.7	7.0								21.0	8.9
ESE	.7	3.0	2.3	.7								6.3	7.4
SE	.7	3.7	2.0	2.0								7.7	7.6
SSE	.7	3.7	2.0	.3								6.0	6.0
S		3.0	3.0									6.0	6.0
SSW	.7	2.3	2.3	.7	.7							6.7	8.5
SW	.7	2.3	1.3	2.0								6.7	8.2
WSW	.3	2.0	2.0									4.3	6.3
W	1.7	1.3	1.7	.3								5.0	5.7
WNW	.7	.7		.7								1.7	4.8
NW		.7	.3									.7	8.0
NNW		.7	1.7									1.7	6.8
VARBL													
CALM												.7	
	8.0	31.7	39.0	20.0	.7							100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 720

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 21-1 WETWAY ISLAND STATION NAME 23-02 YEARS 17  
 CLASS ALL WEATHER  
 CONDITION 17  
 HOURS (LST) 17

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	.3										1.7	3.5
NNE	.7	1.7	1.7									3.7	3.6
NE	.7	.7	4.7	1.7								7.7	4.4
ENE		3.7	6.7	5.7	.3							14.7	7.4
E		2.7	6.7	8.7								15.3	5.2
ESE	.7	1.7	7.3									4.7	7.2
SE	.7	7.7	3.7	1.7								10.3	6.3
SSE	.7	7.7	2.7	.3								6.7	5.6
S		3.7	7.7	.7								6.7	7.1
SSW		1.7	2.7	1.7	.3							5.7	4.2
SW		1.7	3.7	1.7								6.7	3.3
WSW	.7	2.7	2.7	1.7								6.7	7.5
W		1.7	1.7									3.7	6.3
WNW	1.7	.3	.3	.3								2.7	5.5
NW		1.7	.7									1.7	5.5
NNW	.7	1.3	.7	.7								3.3	5.7
VARBL													
CALM													
	7.7	26.0	43.7	21.0	.7							10.7	5.5

TOTAL NUMBER OF OBSERVATIONS 270

SMOS



3  
2400442  
125

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

127.1 STATION MIDWAY ISLAND 73-92 YEARS JUN MONTH  
16  
HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.7	.7									1.3	6.3
NNE	.7	2.0	1.3	.3								4.3	5.7
NE	.7	2.0	3.7	2.0								8.7	8.3
ENE		2.0	7.7	5.0	.3							14.7	9.4
E	.3	3.3	9.3	7.0								20.0	9.1
ESE	.7	2.3	2.7	.7								6.3	6.8
SE	1.0	3.0	.7	1.7								6.3	7.3
SSE	1.7	2.0	2.0	.3								6.0	6.1
S	1.7	3.3	2.3									7.0	5.9
SSW	.7	2.7	.7	1.0	.3							5.7	7.3
SW	.7	.3	2.3	2.0								5.2	9.2
WSW	1.7	1.7	2.0	.3	.3							5.3	7.3
W	1.0	1.7	2.0	.3								5.7	6.3
WNW	.7	1.3	.7	.3								3.0	6.2
NW		.7	.3	.3								1.3	7.3
NNW	.7		.7									1.0	4.3
VARBL													
CALM													
	12.3	22.0	38.0	21.3	1.3							100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 100

SMOS





3

7086442

1725

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NCPERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

27.1  
STATION

MIDWAY ISLAND

STATION NAME

73-82

YEARS

JUL

MONTH

ALL WEATHER

CLASS

10

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.2										1.7	4.4
NNE	.7	.7	.7	.3								1.7	6.8
NE	1.7	4.0	4.7	1.3	.3							12.0	7.0
ENE		3.0	10.0	4.7								17.7	8.8
E	2.7	3.7	8.4	3.0								17.7	7.7
ESE	1.7	2.7	2.3									6.7	5.6
SE	2.0	1.7	.7	1.7								5.4	6.1
SSE	2.0	1.7	1.0	.3								5.0	5.2
S	1.7	2.3	1.3									5.4	4.6
SSW	1.3	.7	.3	.3	.3							3.0	6.6
SW	1.7	1.7	1.0	.7								5.0	6.3
WSW	.3	2.7	1.3	.7								5.0	6.7
W	2.3	2.7	1.0									6.0	4.5
WNW	.7	1.3	.7									2.3	5.9
NW		.7		.7								1.0	7.3
NNW	1.7	.7	.3									2.3	4.0
VARBL													
CALM												2.0	
	20.1	31.1	33.4	12.7	.7							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

299

8MOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 2201 MIDWAY ISLAND STATION NAME 73-77.81 YEARS JUN  
CLASS ALL WEATHER MONTH 22  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	1.1	.6										1.7	2.7
NNE	1.7	1.7	.6									3.9	4.6
NE	1.7	.6		1.7								3.9	8.1
ENE	.6		2.7	4.4								7.8	10.6
E	1.7	1.7	8.9	1.1								17.3	7.6
ESE	2.2	2.2	3.3	.6								6.3	6.0
SE	.6	5.0	.6	1.7								7.8	6.5
SSE	.6	3.3	1.7	.6								6.1	6.4
S	.6	1.7	1.1	.6								3.9	7.3
SSW	1.7	2.2	1.1		.6							5.6	6.1
SW	1.7	2.8	1.1	1.7								7.2	6.5
WSW	.6	2.8	1.1									4.4	5.1
W	5.0	1.7	1.7									8.3	1.9
WNW	1.1	1.1										2.2	4.0
NW	.6	.6	.6									1.7	5.3
NNW	1.1		.6									1.7	4.3
VARBL													
CALM												12.2	
	22.2	27.8	25.0	12.2	.6							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 192

SMOS





3

14-00000-100

1225

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 0271 MIDWAY ISLAND STATION NAME 73-82 YEARS JUN MONTH  
ALL WEATHER CLASS ALL HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.7	.2									1.4	4.3
NNE	.9	1.2	.7	.1								3.0	5.1
NE	1.1	1.6	2.9	1.3	.7							7.0	7.5
ENE	1.2	3.2	6.6	4.2	.2							15.4	8.5
E	1.4	3.7	8.8	4.7								18.5	8.4
ESE	1.0	2.6	2.4	.4								6.4	6.3
SE	1.4	2.8	1.5	1.5								7.2	6.9
SSE	1.2	1.9	1.6	.4								5.0	6.2
S	.9	2.7	2.7	.3								5.9	6.1
SSW	.7	1.9	1.5	.7	.4							5.3	7.8
SW	.7	1.8	1.9	1.1								5.6	7.4
WSW	.6	2.1	1.9	.4	.7							5.1	6.7
W	1.5	1.2	1.2	.1								4.7	5.1
WNW	.7	.8	.2	.1								1.9	4.9
NW	.2	.6	.3	.1								1.3	6.2
NNW	.4	.6	.5	.0								1.8	5.3
VARBL													
CALM												4.5	
	14.5	30.3	34.5	15.5	.7							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 2158

8MOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

27-1  
STATION

MIDWAY ISLAND  
STATION NAME

73-82  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

31  
HOURS 15.57

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.1											.1	2.5
NNE	1.6	1.3		.6								3.5	5.5
NE	1.3	1.6	1.3	.3								4.5	5.9
ENE	1.3	3.2	7.4	6.1								18.1	9.1
E	1.3	6.5	12.3	9.4	1.0							29.7	9.2
ESE	2.6	2.9	7.7	1.6	.3							15.2	7.3
SE	.3	1.9	4.5	1.0								7.7	8.0
SSE	.6	1.6	1.2	.3								4.5	6.6
S	1.0	2.9	1.6	.6								6.1	6.2
SSW	.3	.6	.3	.3								1.6	5.8
SW			1.6	.6								2.3	9.4
WSW				.3								.3	12.0
W													
WNW													
NW													
NNW			.3									.3	9.0
VARB													
CALM												5.5	
	11.0	22.0	39.7	20.3	1.3							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

310

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 12701 MIDWAY ISLAND STATION NAME 73-77.81 YEARS JUL SOUTH  
ALL WEATHER CLASS 04 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE		1.1										1.1	5.0
NE	.5	1.6	.5	.5								3.2	6.3
ENE	1.1	1.1	9.1	7.7								18.3	9.7
E	1.5	3.8	12.4	15.1	1.1							33.9	10.3
ESE	2.2	4.3	4.8	3.2	.5							15.1	7.9
SE		2.7	2.7	1.6	.5							7.5	8.5
SSE	.5	1.1	1.6									3.2	6.3
S	.5	2.2	2.2	1.6								6.5	8.4
SSW	.5	1.6	.5									2.7	4.5
SW			1.6	1.1								2.7	10.4
WSW		.5	.5									1.1	5.5
W													
WNW													
NW													
NNW													
VARB.													
CALM												4.5	
	7.0	19.9	35.0	30.1	2.2							100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 156

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 0071 MIDWAY ISLAND STATION NAME 73-82 YEARS JUL  
CLASS ALL WEATHER MONTH 07  
CONDITION 07 HOUR (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			.7									.3	7.0
NNE	1.5	1.3		.7								3.2	5.0
NE	.5	1.3	1.6	1.0								4.5	7.4
ENE	1.0	3.9	6.5	4.8								16.1	8.6
E	1.3	6.6	12.3	12.3	.3							31.0	7.2
ESE	1.0	6.5	5.8	1.9	.3							15.5	7.1
SE	.7	1.6	5.5	.6								8.4	7.6
SSE	.7	.6	2.3	.6								3.9	0.3
S	.3	1.6	1.0	.6								3.5	7.4
SSW	1.0	.6	1.0	1.0								3.5	7.0
SW		.2	1.3	.6								2.3	9.1
WSW	.3	.3	.3									1.0	5.7
W													
WNW		.7										.3	4.0
NW													
NNW													
VARBL													
CALM												6.5	
	7.7	25.2	38.1	21.9	.6							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 110

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1271 MIDWAY ISLAND STATION NAME 73-22 YEARS JUL MONTH 10  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.0	.3									1.6	5.2
NNE	.7	.3	.6									1.3	6.3
NE	1.0	2.6	1.3	.6								5.5	6.3
ENE	.6	3.5	3.0	4.8	.3							13.2	8.4
E	.3	5.7	14.2	13.9	1.9							36.1	10.9
ESE		1.0	6.2	3.9								11.6	9.1
SE	1.3	2.6	4.5	1.9								10.3	7.6
SSE	1.0	1.6	2.3	.6								5.5	6.6
S	.6	1.6	1.0	1.0								4.2	7.4
SSW	.5	1.3	1.6	1.0								4.5	7.1
SW		.3	1.6	.6								2.6	9.4
WSW		.3		.3								.7	8.0
W	.3	.3										.6	3.5
WNW						.3						.3	27.0
NW		.3										.3	6.0
NNW	.3											.7	1.0
VARBL													
CALM												1.7	
	5.2	22.6	38.1	29.7	2.3	.3						100.0	8.8

TOTAL NUMBER OF OBSERVATIONS 315

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 27-1 MIDWAY ISLAND STATION NAME 17-87 YEARS JUL  
MONTH 17  
HOURS (L.S.T.) 17  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.0										1.7	5.0
NNE	.7	.3	.6									1.7	5.5
NE		2.6	1.2	1.3	.3							6.1	8.1
ENE		1.9	2.0	3.5	.6							9.7	10.3
E	.7	4.2	15.6	13.9	2.6							38.7	10.7
ESE	.3	.6	8.4	4.2	.3							13.2	9.7
SE	1.7	2.3	6.1	1.7								10.6	7.5
SSE	1.0	1.3	2.6	.6								5.5	6.9
S	.7	2.6	1.7	.6								5.5	7.6
SSW	.7	.3	1.6	.3								2.6	7.5
SW	.7		.6	1.6								2.6	10.9
WSW		.7	.6									1.0	7.3
W	.3			.3								.6	8.0
WNW		.6	.3									1.0	6.0
NW		.3	.3									.6	6.0
NNW	.6	.3										1.0	3.3
VARB													
CALM												.6	
	7.5	13.7	43.0	27.4	3.9							100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 310

8808



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 0271 MIDWAY ISLAND STATION NAME 73-82 YEARS 1971  
ALL WEATHER CLASS 1 MONTH 1  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.7										1.7	4.5
NNE	.7	1.3	.3									1.7	4.5
NE	.5	2.3	2.3	1.7	.3							6.5	7.8
ENE	.3	1.9	5.2	5.5	.6							14.2	10.0
E		5.2	11.3	10.3	3.2							30.0	13.7
ESE	.6	2.9	10.6	3.5								17.7	8.6
SE	1.7	2.6	4.2									7.7	6.9
SSE	1.0	1.7	2.6									5.0	5.7
S	1.7	1.3	2.2									5.2	6.1
SSW		.6	1.3	.6								2.5	4.4
SW		.6	.3	1.3								2.6	4.6
WSW	.7	.3	.3									1.0	4.0
W	.7	.3	.3									1.0	5.3
WNW		.7	.3									.6	6.5
NW													
NNW	.7	.3	.3									1.0	4.7
VARBL													
CALM												1.0	
	7.1	21.2	43.2	22.3	4.2							100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 217

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 271 STATION NAME MIDWAY ISLAND YEARS 73-82 MONTH JUL  
CLASS ALL WEATHER HOURS (L.E.T.) 16  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.6										1.0	4.0
NNE	1.6	.5										2.3	3.6
NE	1.3	2.9	2.6	1.0	.3							6.1	6.9
ENE	1.0	2.9	5.1	5.8	.3							19.0	8.6
E	.7	5.2	11.7	11.0	2.3							30.0	10.2
ESE	1.6	4.5	4.8	2.9	.3							14.2	7.0
SE	2.3	1.6	3.5	.3								7.7	6.2
SSE	1.7	1.3	1.0									4.5	5.5
S	.6	1.9	.6	.3								3.5	5.8
SSW	.7	.5	.6						.3			1.9	11.3
SW		.6	.6	1.3								2.6	10.0
WSW	.7	.3	.6									1.3	5.0
W													
WNW	.7	.3	.7									1.0	5.2
NW	.7											.7	2.0
NNW	.7	.7										.6	7.0
VARB.													
CALM												1.0	
	12.0	23.9	35.2	22.6	7.2				.3			100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 316

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1071 MIDWAY ISLAND STATION NAME 73-77.81 YEARS JUL  
CLASS ALL WEATHER MONTH 7  
CONDITION 72  
HOURS (LST) 72

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													4.0
NNE	.5	1.6										2.0	3.2
NE		1.1	2.2	.5								3.0	4.3
ENE	1.6	1.6	6.5	6.1								17.7	9.5
E	1.1	1.6	12.4	15.1	2.7							32.0	11.2
ESE	.5	3.2	8.9	4.3	.5							20.4	8.9
SE	1.1	1.6	3.2									6.5	6.3
SSE		2.2	1.1									3.2	6.5
S	.5	1.6	1.1	.5								4.0	6.3
SSW		1.1	.5									1.6	6.5
SW			1.2	.5								2.7	9.6
WSW													
W		.5										.5	6.5
WNW													
NW		.5										.5	6.5
NNW													
VARBL													
CALM												3.0	
	5.6	17.2	3.2	29.2	3.2							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 186

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 271 MT. WY. ISLAND STATION NAME 73-92 YEARS JUL  
CLASS ALL WEATHER MONTH ALL  
CONDITION ALL HOURS (L & T)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.5	.1									.5	4.6
NNE	.7	.9	.2	.1								2.2	4.9
NE	.7	2.1	1.7	.8	.1							5.6	7.1
ENE	.6	2.6	6.1	5.5	.3							15.5	8.3
E	.7	5.2	12.8	11.9	1.9							32.4	10.2
ESE	1.3	3.2	7.3	7.1	.3							15.2	8.2
SE	1.0	2.1	4.5	.8	.0							6.6	7.3
SSE	.0	1.3	2.1	.3								4.6	6.5
S	.0	2.0	1.5	.6								4.7	6.9
SSW	.4	.2	1.0	.4								2.7	7.4
SW	.0	.7	1.2	1.0								2.5	9.6
WSW	.1	.7	.7	.1								.5	5.7
W	.1	.1	.1	.0								.4	5.6
WNW	.7	.2	.1									.4	7.7
NW	.0	.1	.1									.2	8.2
NNW	.0	.1	.1									.4	4.0
VARBL													
CALM												3.1	
	1.4	21.0	32.2	24.8	2.6	.0			.3			100.0	8.4

TOTAL NUMBER OF OBSERVATIONS 2232

SMOS



3

7486-1432

7226

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 17-1 MIDWAY ISLAND STATION NAME 13-80 YEARS 13 MONTH 11  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.7										1.0	7.3
NNE	3.3	.6	.7									3.6	2.6
NE	1.7	1.6	.7	1.1								4.5	5.3
ENE	7.6	4.5	3.7	3.2								14.9	6.6
E	.7	1.1	15.7	5.9	.7							23.7	1.6
ESE	1.1	5.5	6.5	3.2								16.3	7.7
SE	2.1	2.6	2.1	1.6								12.1	7.2
SSE	1.1	1.3	2.6	1.1								6.1	6.7
S	1.1	2.6	1.1	1.6								6.1	7.4
SSW	.1	.3	.7									1.1	4.3
SW	.1		.1	.7								1.1	5.5
WSW	.7	.7										.7	4.7
W		.7										.7	4.2
WNW	.7		.7	.3								1.7	7.7
NW	.7	.7										.7	3.0
NNW		.7										.7	4.0
VARBL													
CALM												6.2	
	1.2	37.2	31.4	10.1	.3							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 720

SMOS



3  
7448442

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 270 MIDWAY ISLAND STATION NAME 73-77.81-82 YEARS AVC  
MONTH 04  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5											.5	3.0
NNE	1.6	1.6	.5									3.7	4.4
NE	1.6	2.6	1.1	1.6								6.9	6.6
ENE	3.7	3.2	2.6	2.1								11.6	6.3
E	1.1	4.7	10.5	5.8	.5							22.6	8.7
ESE	2.1	2.6	6.9	.5	.5							12.6	7.7
SE	.5	2.6	3.7	1.1	1.1							6.9	8.5
SSE		1.6	5.8	.5								7.9	8.5
S	1.1	3.7	1.1	1.1								6.9	8.4
SSW		1.1	1.6	.5								3.2	8.3
SW			.5	1.1								1.6	11.0
WSW													
W	.5	1.1	.5									2.1	5.0
WNW		.5										.5	6.0
NW		.5										.5	6.1
NNW	.5	.5										1.1	3.5
VARBL													
CALM												9.0	
	11.2	26.3	34.7	14.2	2.1							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 167

SMOS



3

2466 6432

7235

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1371 MITCHELL ISLAND STATION NAME 13-82 YEARS 1980  
 CLASS ALL WEATHER MONTH 07  
 CONDITION NOISE (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	.3										1.0	2.4
NNE	1.7	1.3										2.6	3.8
NE	1.7	1.7	1.6	.6								5.5	6.5
ENE	7.2	3.6	4.7	2.3	.3							13.6	7.0
E	2.6	6.8	9.7	4.9								23.9	7.7
ESE	.3	4.5	6.5	2.9								14.6	7.9
SE	1.7	2.6	2.6	2.3								6.7	7.8
SSE	1.7	1.6	2.9	.6								6.5	7.3
S	.7	2.6	2.9	1.7								6.8	7.4
SSW		1.7	.7									1.3	5.3
SW	.7	.3	.6	.3								1.6	8.2
WSW		.3	.7									.6	7.0
W	.7	.3										.6	3.0
WNW		.7										.3	5.0
NW	.7	.3										1.0	2.7
NNW	.3		1.7									1.3	6.0
VARBL													
CALM												9.4	
	14.6	23.2	32.7	14.9	.3							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 319

SMOS



E  
3

14-00-012

1225

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 12251 MIDWAY ISLAND STATION NAME 73-82 YEARS 1973 MONTH 10  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.5										.5	4.0
NNE	1.0	1.9	.3									4.2	3.8
NE	.5	1.0	1.0	1.6	.3							5.5	8.8
ENE	1.0	3.6	4.9	2.3								12.3	7.8
E	.5	6.1	11.3	6.5	.3							24.0	8.6
ESE	.5	3.2	8.1	4.5								16.5	8.9
SE	.3	3.2	5.2	2.9								11.7	8.2
SSE		.5	3.0	1.3								5.0	8.5
S	.3	1.0	3.6	1.0	.3							7.1	8.2
SSW		1.2	1.0									2.3	6.7
SW	.2	.3	.2	.6								1.6	8.4
WSW		.2	.2									1.0	2.3
W	.5	.3	.2									1.0	4.3
WNW	.5	1.0										1.6	3.4
NW	.5	.3										1.0	2.7
NNW		.2	1.0	.3								1.5	8.6
VARBL													
CALM												1.0	
	5.4	26.2	42.4	21.0	1.0							100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 100

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 127-1 MIDWAY ISLAND STATION NAME 73-62 YEARS 1962 MONTH 12

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.2	1.0									1.3	7.3
NNE	.3	1.3	1.0									2.6	5.8
NE	.5	1.3	1.3	1.3								4.5	7.2
ENE		1.6	5.1	3.2	.3							11.3	7.5
E	1.7	5.2	13.7	5.5	.6							25.6	8.8
ESE	.3	2.3	7.1	5.5	.3							15.5	9.4
SE	.5	2.6	5.2	2.3								11.3	7.2
SSE	.7	2.7	2.9	1.6								7.8	7.5
S	1.7	3.6	4.2	.3								9.1	6.5
SSW		.5	2.3	.3								3.2	6.1
SW			.6	.6								1.3	11.5
WSW				.3								.3	11.6
W	.6	1.7	.5									2.3	5.0
WNW	.3											.3	3.0
NW		1.6		.3								1.9	6.3
NNW		.3	.6									1.0	7.0
VARBL													
CALM													
	5.2	24.4	46.9	21.4	1.3							100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 709

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 000 MOHAWY ISLAND STATION NAME 33-92 YEARS 1960  
ALL WEATHER MONTH 16  
 CLASS 16  
 CONDITION 16  
 HOURS (L.S.T.) 16

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.0	.3									1.4	5.4
NNE	.7	1.0	.7									1.6	5.0
NE	1.0	1.6	1.0	2.6								7.8	7.7
NNE	1.0	3.6	5.0	2.6	.3							12.9	6.1
E	1.0	3.6	13.3	4.0	.3							23.3	6.6
ESE	1.0	3.0	5.1	4.2	.3							15.5	8.6
SE	1.0	1.0	6.0	.6								10.4	7.6
SSE	1.0	2.6	3.2	1.6								8.7	7.2
S	1.0	1.0	1.0									5.5	5.8
SSW	.7	1.0	1.6	1.0								3.9	7.8
SW	.7	.7	.3	.3								1.0	6.0
WSW	.7	.7	.3	.3								1.0	6.0
W	.7	1.0										1.6	3.4
WNW	.7	.3	.3									1.0	5.0
NW	.6	1.0		.3								1.2	5.0
NNW	.7	.6										1.2	3.7
VARBL													
CALM												.1	
	12.4	25.9	41.7	13.4	1.0							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 300

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION WIDELAY ISLAND STATION NAME 73-00 YEARS 1950  
ALL WEATHER  
CLASS  
CONDITION  
17  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0			.7								1.7	4.5
NNE	1.7	1.3										2.6	3.5
NE	1.6	1.3	1.6									4.5	4.9
ENE	1.7	7.5	4.7	4.2	.3							17.0	7.9
E	1.7	7.5	13.8	5.2	.3							27.0	8.0
ESE	1.7	4.2	6.7	1.6								13.4	7.3
SE	1.7	3.3	3.7	1.7								9.8	6.6
SSE	.7	2.7	2.6	1.7								7.7	7.5
S	.7	1.7	1.6									3.6	6.0
SSW	.7	.3	1.7									2.0	5.5
SW	.7	.3	.7									1.0	6.3
WSW	1.7		.7	.3								1.6	5.2
W	1.7		.7									1.7	4.5
WNW	1.7	.3	.7									1.6	3.4
NW	.7											.7	2.5
NNW	.7	.7										1.7	3.3
VARS													
CALM												3.3	
	15.3	30.9	36.7	13.7	.7							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 307

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 2101 MIDWAY ISLAND STATION NAME 73-77.81-82 YEARS 1973-1977 MONTH ALL  
CLASS ALL WEATHER  
CONDITION 22  
HOURS (LST) 22

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0										2.1	3.0
NNE	1.0	.5	.5									2.1	4.0
NE	.5	2.6	2.1	1.0								6.3	7.3
ENE	2.1	2.6	4.2	4.2	.5							14.1	8.4
E	2.1	5.8	11.5	5.8	1.0							25.2	8.7
ESE	.5	2.1	7.2	3.7								14.1	8.9
SE	1.0	2.6	3.1	2.6								9.4	8.1
SSE	.5	4.2	1.6	1.0								7.3	6.5
S	.5	2.1	1.6									4.2	6.3
SSW	1.0	.5	1.0	.5								3.7	5.0
SW	.5	.5	.5									1.6	4.7
WSW				.5								.5	12.0
W			.5									.5	7.0
WNW		.5										.5	4.0
NW			.5	.5								1.0	10.5
NNW		.5	.5									1.0	6.0
VARBL													
CALM												5.0	
	12.0	25.7	35.6	17.9	1.6							100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 191

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1 MIDWAY ISLAND STATION NAME 73-62 YEARS ALL MONTH ALL  
CLASS ALL HOURS ALL  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												1.7	4.3
NNE	1.7	1.2	.4									2.8	4.5
NE	1.2	1.7	1.5	1.2	.7							5.6	7.0
ENE	2.0	3.0	4.5	7.0	.7							13.6	7.7
E	1.2	5.0	11.7	5.5	.4							24.6	8.4
ESE	.5	7.7	6.0	3.4	.1							15.0	8.3
SE	1.1	2.7	4.7	1.8	.1							10.5	7.7
SSE	.7	2.1	3.1	1.1								7.1	7.4
S	.1	2.0	2.7	.6	.7							6.2	7.0
SSW	.4	.7	1.1	.3								2.5	6.8
SW	.4	.3	.4	.4								1.2	7.8
WSW	.7	.2	.2	.2								.7	6.9
W	.7	.1	.7									1.3	4.5
WNW	.1	.5	.1	.0								.9	4.5
NW	.4	.5	.7	.1								1.1	4.9
NNW	.7	.4	.4	.0								1.1	5.3
VARIABLE													
CALM												4.0	
	12.1	27.0	38.0	17.8	.9							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 2233

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73-1 MIDWAY ISLAND STATION NAME 73-82 YEARS SEP  
MONTH 31  
HOURS (L.S.T.) 31  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N												.3	7.0
NNE	2.7	2.7	2.7									6.7	5.1
NE	2.7	2.7	2.7									6.7	5.1
ENE	2.7	5.0	9.7	1.0								18.3	6.7
E	1.0	5.7	9.7	5.0	1.0							23.7	5.8
ESE	1.0	2.3	3.7	2.0								9.7	5.2
SE	.7	1.7	1.7	1.3								4.7	7.4
SSE		.7	7.0	1.0	.3							5.7	3.9
S	.5	.7	1.3	1.0								3.7	5.7
SSW		.7	1.0	.7								2.7	7.2
SW		.7	.7	.3								1.7	7.6
WSW	.7	1.0	1.0									2.7	5.6
W	.7	.7	.7									1.7	5.5
WNW			.7									.3	7.0
NW	.7	.7										1.7	4.0
NNW	.7											.7	1.5
VARBL													
CALM												10.3	
	11.7	25.7	35.7	13.3	1.3							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 100

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION MOOREY ISLAND STATION NAME 73-77.81-32 YEARS SEP  
CLASS ALL WEATHER MONTH 04  
CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.5	1.1									2.7	5.5
NNE	7.7	1.6	.5									6.2	4.1
NE	2.2	2.7	4.0									9.2	5.5
ENE	1.1	5.5	7.7	2.3	.5							15.6	7.7
E		4.0	2.2	5.6								15.7	9.2
ESE		4.4	3.3	1.6								9.2	7.6
SE	1.1	.5	2.7	1.1								5.5	7.6
SSE	.5		2.7		.5							3.5	5.5
S	.5	1.6	1.1	1.1								4.4	5.5
SSW	.5	.5										1.1	3.5
SW		1.1	.5									1.6	5.7
WSW		.5	.5	.5								1.6	2.3
W		1.6	1.1									2.7	6.0
WNW		.5		.5								1.1	5.0
NW			.5									.5	5.0
NNW	.5	.5										1.1	3.0
VARB.													
CALM												10.5	
	11.5	26.9	35.0	14.8	1.1							100.2	6.6

TOTAL NUMBER OF OBSERVATIONS 107

2MOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1271 STATION NAME MIDWAY ISLAND YEARS 73-80 MONTH SEP  
CLASS ALL WEATHER HOURS (LST) 07  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	.7									1.7	5.3
NNE	1.7	3.7	1.7									8.0	8.5
NE	1.7	1.7	2.7	.3								7.3	6.6
ENE	1.7	7.3	5.7	3.7								17.3	7.1
E	1.7	4.7	9.7	5.7								20.3	8.2
ESE	1.7	1.7	2.7	3.7	.3							5.7	6.7
SE	.7	1.7	1.7	.3	.3							3.3	2.4
SSE		.7	1.7	.3	.3	.7						3.3	10.9
S		.7	2.7		1.7							4.3	4.3
SSW			.7	.7								1.7	12.0
SW		1.7	1.7									2.7	7.6
WSW	.7	.7	.7	.7								2.3	6.3
W	1.7	1.7	.3									3.7	4.2
WNW	.3	1.7										1.7	4.2
NW	.3	.7	.7									1.7	5.7
NNW	1.7	.7										1.7	2.7
VARBL													
CALM												17.3	
	14.0	25.7	36.3	13.3	2.7	.7						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 210

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1011 MIDWAY ISLAND STATION NAME 73-90 YEARS 1973 MONTH 17  
CLASS ALL WEATHER HOURS (L S Y) 17  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.0	1.7									4.7	5.7
NNE	1.0	2.0	2.3									5.3	6.0
NE	1.0	4.0	3.0	.7								6.7	5.6
ENE	.7	4.3	6.0	3.3								14.3	5.2
E	2.0	5.0	13.3	5.7	.3							27.3	8.5
ESE	.7	1.0	3.3	3.0								8.0	9.3
SE	.0	1.3	2.0	1.3	.3							5.3	8.8
SSE		1.7	1.3	1.0	.3							4.0	9.1
S	.7	1.0	.7	.3	1.0							3.7	9.2
SSW		.7	1.0	1.0								2.3	10.6
SW	.0		1.3									1.7	7.6
WSW	.7		.7	.7								1.7	9.6
W	.7	.7	1.3									2.7	8.0
WNW	1.7	1.3	.3									3.0	4.2
NW	.3	2.3	.3									3.0	5.1
NNW	1.0	1.3	.3									2.7	4.4
VARBL													
CALM												2.3	
	13.0	27.0	33.7	17.0	2.0							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 310

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE YEARS: 1951-1952 MONTH: 12  
CLASS: ALL WEATHER  
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.7										2.7	4.4
NNE	1.7	1.7	2.7	1.7								5.7	5.6
NE	1.7	1.7	4.7	1.7								5.7	5.2
ENE	1.7	3.7	7.7	6.7								17.7	9.2
E	1.7	3.7	7.7	9.7								22.1	8.4
ESE	1.7	3.7	6.7	3.7								15.7	6.2
SE	1.7	1.7	1.7	1.7								5.7	7.3
SSE	1.7	2.7	1.7	1.3								5.7	5.7
S		1.7	1.7	1.7	1.7	1.7						4.7	11.6
SSW			2.7									2.7	7.7
SW		1.7	1.7	1.7								1.7	9.2
WSW	1.7	1.7	1.7	1.7								2.3	7.6
W	1.7	1.7	2.7									4.7	5.8
WNW	1.7	1.3										2.3	4.3
NW	1.7	1.7		1.3								1.7	6.4
NNW	1.7	1.7	1.7									3.7	5.9
VARBL													
CALM												1.7	
	10.7	27.1	37.3	22.4	1.7	1.3						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS 209

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1 MC WAY ISLAND STATION NAME 75-0 YEARS 1950 MONTH 12

CLASS ALL WEATHER

CONDITION

HOURS (L S T) 12

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.7	1.7									4.8	2.6
NNE	.7	2.3	1.7	.7								2.8	6.2
NE	1.7	3.0	4.7	1.7	.3							10.4	7.1
ENE	1.0	2.3	7.7	4.7								15.1	4.6
E	.7	4.3	10.4	7.7	.3							25.8	6.6
ESE	.7	1.7	5.0	1.3	.3							8.7	6.2
SE	.7	.7	1.7	1.3								4.8	1.2
SSE	1.0	.3	1.7	.7								3.7	7.5
S	.7	.7	.7	.7	.7							3.7	1.2
SSW		1.3	1.7	.7								3.7	.1
SW	1.0	.3	1.7									2.3	5.7
WSW	1.7	.3	1.7	.7								3.7	5.1
W	1.0	1.3	.7									2.7	4.5
WNW	.7	1.3	.7									2.7	5.7
NW	.7	1.7	.7									2.3	5.6
NNW	.7	1.7										1.7	3.0
VARBL													
CALM												5.3	
	14.0	24.1	32.5	1.4	1.7							10.0	7.5

TOTAL NUMBER OF OBSERVATIONS 199

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 011 MOHAVE ISLAND STATION NAME 77-40 YEARS SEP  
CLASS ALL WEATHER MONTH 19  
CONDITION 19  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.7	1.7									3.7	4.9
NNE	2.0	5.0	1.0									8.7	4.2
NE	1.0	4.3	.7	.3								6.4	5.3
ENE	4.7	4.3	2.7	3.7								21.4	7.2
E	1.7	5.4	11.7	4.7								22.4	8.7
ESE	.7	2.0	3.0	2.0								7.7	6.5
SE	1.7	1.3	.7	.7								4.3	5.7
SSE		1.3	1.3	.7								3.3	4.5
S	.7	.7	1.0	.7								2.7	3.4
SSW		.7	.7	.3								1.7	6.0
SW		.7	1.0	.3								2.0	7.7
WSW	.7	.7	.3	.3								1.7	6.6
W	1.0	.7	.3									2.0	4.2
WNW	.7	.7										1.0	4.3
NW	.7	.3	.7	.3								1.7	5.8
NNW	1.0		.7									1.3	2.3
VARBL													
CALM												8.7	
	17.7	29.1	31.4	14.0								100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 109

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1071 MITCHELL ISLAND STATION NAME 73-77.81-92 YEARS 1973-1977 U.S.P. 22  
NORTH 22  
CLAS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.2	.5									2.7	2.2
NNE	2.2	2.7	2.2	.5								7.7	5.9
NE	1.6	7.1	1.6	.5								10.0	5.4
ENE	.5	5.5	10.4	3.8								20.2	5.0
E	1.1	4.2	2.8	7.1	.5							23.5	9.6
ESE		1.6	3.8	.5								6.2	8.0
SE	1.1	1.6	.5	.5								3.8	6.0
SSE	.5	1.1	2.7	1.1								5.5	9.0
S		1.1	1.6	.5								3.3	7.7
SSW	1.6	1.1	.5									3.3	4.2
SW		.5										.5	5.0
WSW	.5											.5	2.0
W	.5	.5	1.6									2.7	6.4
WNW		.5										.5	6.0
NW				.5								.5	12.0
NNW	.5											.5	2.0
VARBL													
CALM												7.7	
	10.4	30.6	35.5	15.3	.5							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 193

BR06



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 001 MIDWAY ISLAND 77-30 SEP NORTH  
CLASS ALL  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.1	.7									2.6	5.2
NNE	1.0	2.0	1.0	.2								6.7	5.2
NE	1.0	3.3	3.1	.6	.0							8.3	6.4
ENE	1.0	4.6	7.0	3.5	.2							17.7	7.8
E	1.7	4.9	9.8	6.3	.3							23.0	8.8
ESE	.6	2.2	3.0	2.2	.1							8.9	9.4
SE	.2	1.2	1.4	1.0	.1							4.5	7.5
SSE	.4	1.1	1.6	.6	.2	.0						4.2	8.5
S	.4	1.0	1.2	.6	.5	.0						3.7	9.2
SSW	.2	.5	.9	.5								2.0	6.1
SW	.2	.5	.9	.2								1.0	7.4
WSW	.5	.5	.7	.4								2.1	6.8
W	.6	.9	.2									2.6	5.2
WNW	.5	.2	.2	.0								1.6	4.9
NW	.4	.8	.2	.1								1.6	5.6
NNW	.0	.6	.3									1.7	3.9
VARBL													
CALM												7.0	
	12.0	27.0	35.5	16.2	1.2	.1						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 2163

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1271 MIDWAY ISLAND STATION NAME 73-82 YEARS 207  
 CLASS ALL WEATHER MONTH 01  
 CONDITION NOVEMBER (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	.6									2.6	5.1
NNE	.6	4.2	3.2	1.7								9.7	6.9
NE	1.3	2.3	2.9	2.3	1.3							10.0	9.3
ENE	0.3	4.1	5.5	2.6	.6	.2						17.4	7.5
E	.3	3.2	5.2	4.2	.3							13.2	9.0
ESE	.6	1.3	2.3	1.0	1.0							6.1	9.6
SE	.2	1.0	1.2	3.2								6.5	9.3
SSE	1.7	1.0	1.6	1.6	.3							5.5	8.6
S		1.6	.6	1.6								3.9	8.6
SSW		1.6	.6	.6								2.0	7.7
SW	.3		.6	1.3								2.3	10.1
WSW	.2	1.0	1.0									2.3	5.7
W		1.3										1.3	4.5
WNW	.2		.6									1.7	7.3
NW	.2		1.0									1.3	5.2
NNW	1.7	.3	1.0									2.6	4.4
VARBL													
CALM												10.3	
	17.0	25.2	28.7	12.4	3.5	.2						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 711

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 271 MURRAY ISLAND STATION NAME 73-77.81-82 YEARS CCY  
CLASS ALL WEATHER MONTH 04  
CONDITION NOVRS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.5									3.5	5.0
NNE	1.0	3.0	2.5	2.5								8.9	5.2
NE	1.5	3.0	2.5	2.0								8.9	7.5
ENE	1.0	1.5	3.5	3.5	2.0							11.4	10.1
E	.5	1.5	5.0	6.4	.5							13.7	10.5
ESE		1.0	4.0	2.0	.5							7.4	10.4
SE		.5	2.0	1.5	.5							4.5	10.1
SSE	.5	1.5	3.0	1.5								6.4	6.3
S	.5	1.0	1.0	2.0	.5							5.4	7.6
SSW	.5	.5	2.5	1.0								4.5	6.6
SW	.5	.5		1.0								2.0	7.0
WSW	1.0		.5	.5								2.0	6.5
W	.5	1.5	2.0									4.0	6.1
WNW				.5								.5	12.0
NW		.5										.5	4.0
NNW	.5	1.0	1.5									3.0	6.3
VARBL													
CALM												13.4	
	1.9	18.7	31.2	24.3	4.0							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 272

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 0713 MIDWAY ISLAND STATION NAME 77-82 YEARS 0-1  
ALL WEATHER MONTH 07  
 CLASS 7  
 HOURS (L & T) 07  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.3	1.7									2.0	5.2
NNE	1.0	2.3	2.0	1.7								8.1	7.4
NE	1.0	2.3	2.9	2.9								9.4	8.3
ENE	1.0	3.0	4.0	3.0	1.0							15.5	8.3
E	.0	2.0	5.0	3.5	.3							13.2	8.8
ESE	.0	2.2	1.0	1.3								5.0	7.6
SE	.0	.0	.3	1.6								3.0	8.9
SSE	.0	1.0	2.3	1.7	1.0							5.0	10.3
S	.0	1.0	2.0	2.6								7.4	8.7
SSW	.0	.0	1.0	1.0								3.0	7.0
SW	.0	.0	.3	.3								1.0	7.0
WSW	.0	1.0	.3	.3								2.0	5.5
W	.0	1.0	.3	.3								1.0	6.5
WNW		.0	1.0									1.0	7.6
NW	.0	.3		.6								1.0	7.4
NNW	1.0	1.0	.0									3.0	4.3
VARBL													
CALM												12.0	
	10.3	24.0	25.4	20.3	2.3							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 310

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION STURGEON ISLAND STATION NAME STURGEON ISLAND YEARS 77-82 MONTH OCT  
 CLASS ALL WEATHER  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.3	1.0	.3								4.2	5.8
NNE	1.0	3.2	3.0									8.1	6.3
NE	1.0	1.3	3.0	2.9								9.2	5.9
ENE	2.3	2.3	4.2	4.8	2.3							15.8	10.1
E	.4	5.5	4.5	4.5	1.0							16.1	8.7
ESE	.7	1.0	2.3	1.9								6.5	8.7
SE	1.0		1.3	.3		.3						2.2	8.7
SSE	.7	.4	2.9	1.9								5.8	9.3
S	1.6	1.3	2.6	2.9		.3						8.7	8.6
SSW	1.0	.6	1.3	1.0								3.9	7.6
SW	.6	.3	.6	.6								2.3	9.6
WSW		.6	.6	.3								1.5	8.6
W		1.9	.6	.3								2.2	6.1
WNW	.4	1.3										1.9	4.0
NW	.7	.6	1.0									1.9	6.5
NNW	1.0	1.0	1.0									4.2	4.5
VARBL													
CALM												4.2	
	13.2	24.4	31.7	21.9	3.2	.6						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 310

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 171 MIDWAY ISLAND STATION NAME 72-5 YEARS 1957  
ALL WEATHER  
 CLASS  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.7	1.7	.7								4.7	5.5
NNE	1.7	2.6	2.6	.3								7.1	6.2
NE	1.7	2.6	4.6	3.2	.6							12.9	9.7
ENE	1.7	3.5	4.2	7.4	1.7							17.4	10.7
E		4.5	4.2	2.6	1.7	.7						13.2	5.0
ESE	1.7	1.6	3.2	1.9								7.7	8.4
SE	1.7	1.3	1.7	1.7								4.9	6.7
SSE		.6	1.3	1.7								2.9	9.6
S	.7	1.6	1.6	2.3	.7							6.5	9.0
SSW		1.3	2.0		.3							4.5	7.7
SW	.7	1.0	1.7	.3								2.6	7.1
WSW	.7		1.3	.6	.3							2.6	9.5
W	.7	2.6	.6	.6								4.5	6.1
WNW		.6	1.7									1.6	7.0
NW	.3	.3	1.7	1.7								2.6	8.9
NNW	.7	2.3	1.7									3.9	6.2
VARBL													
CALM												1.7	
	11.0	27.7	33.5	22.6	3.9	.7						100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 310

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME WATKINS ISLAND YEARS 1950-51 MONTH OCT  
CLASS ALL WEATHER HOURS (L.S.T.) 15  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.0	1.6									5.2	5.6
NNE	1.1	3.9	1.6	1.3								8.5	5.2
NE	2.6	2.9	4.0	3.6								13.0	5.0
ENE	1.0	3.6	4.0	4.5	.6							14.7	4.4
E	1.6	3.2	3.0	5.2	.6	.2						14.9	4.1
ESE	1.0	1.6	2.3	.6								5.5	7.4
SE	.4	1.6	.6	1.9								4.5	8.1
SSE	1.0	1.0	1.3	.6								3.9	6.8
S	1.0	1.0	1.6	2.3								6.5	7.8
SSW	.7	1.3	.6	.6								2.5	7.8
SW		1.0	.6									2.3	4.5
WSW	.7	1.3	.6	.2								2.4	7.1
W	1.0	1.0	1.0	.2								3.2	5.6
WNW	.7	.6	.6									1.6	6.0
NW	1.0	1.0	1.0	.6								3.9	6.0
NNW	1.0	.4	1.0									2.0	4.6
VARB.													
CALM												2.3	
	14.5	29.8	27.0	22.0	1.3	.3						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 379

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME MITCHELL ISLAND YEARS 1954-55 MONTH NOV  
CLASS ALL WEATHER HOURS (LST) 10  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	2.7	1.6									4.5	5.6
NNE	2.2	3.2	3.9	.6								10.7	5.9
NE	1.6	3.2	3.9	1.9	.6	.7						11.7	8.6
ENE	1.6	2.6	6.2	3.9	1.7							15.6	8.9
E	1.7	4.2	2.9	2.6	1.7							12.7	8.2
ESE	1.7	1.3	2.9	1.6	.3							7.1	5.3
SE	.7	.6	1.3	1.6								3.9	3.9
SSE	.7	1.7	2.9	.6								4.9	3.4
S	.7	1.7	1.3	.6								3.2	3.1
SSW	.7	1.7	.6	.6								2.6	7.5
SW	.7	.6	.6	.3								1.3	7.3
WSW	.7	1.6										1.3	4.3
W	.6	1.6	1.7									3.2	5.6
WNW	1.3		.6	.3								1.9	5.5
NW	.7	.3										.6	3.5
NNW	.6	.3	1.3	.3								2.6	6.9
VARBL													
CALM												11.4	
	14.6	24.4	31.2	15.3	2.9	.7						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 306

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION MITCHELL ISLAND STATION NAME 73-77, 81-82 YEARS 001  
ALL WEATHER NORTH 22  
 CLASS HOURS (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		7.5	2.5									5.7	6.3
NNE	2.5	3.5	6.5	5.5								12.0	6.5
NE	1.5	3.5	3.5	3.5								10.5	8.4
ENE	1.5	3.5	4.5	5.5	1.5							16.7	10.2
E		3.5	3.5	5.5	1.5							13.7	10.1
ESE		1.5	1.5	2.5								5.5	9.9
SE			1.5	2.5								4.5	10.3
SSE		2.5	2.5	5.5								5.5	6.5
S		1.5	4.5		5.5							6.5	8.7
SSW		1.5	5.5	1.5	1.5							4.0	10.5
SW				5.5								1.5	7.5
WSW		1.5	5.5									2.5	6.0
W		2.5	5.5	5.5								3.5	6.0
WNW			5.5									5.5	7.0
NW		1.5	5.5									1.5	6.7
NNW		5.5		5.5								1.0	6.0
VARBL													
CALM												9.5	
	6.5	29.0	31.5	21.5	4.0							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 270

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 0711 MIAMI ISLAND STATION NAME MIAMI ISLAND YEARS 1950-51 MONTH ALL

CLASS ALL WEATHER

CONDITION ALL

HOURS 157

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.7	1.7	.1								4.7	5.6
NNE	1.7	3.2	3.2	.9								3.6	5.6
NE	1.7	2.6	3.7	2.7	.9	.7						10.6	5.5
ENE	1.7	3.4	4.7	4.4	1.2	.7						15.6	5.3
E	.0	3.3	4.2	4.1	.7	.1						13.1	5.0
ESE	.0	1.8	2.5	1.5	.2							6.4	5.7
SE	.0	.8	1.2	1.7	.0	.7						4.7	5.7
SSE	.0	1.1	2.1	1.2	.2							5.0	5.5
S	.7	1.4	1.8	1.9	.1	.7						6.0	5.6
SSW	.0	1.1	1.3	.7	.1							3.6	5.1
SW	.7	.7	.5	.5								2.6	7.7
WSW	.3	.3	.5	.3	.7							2.1	5.9
W	.4	1.7	.7	.3								3.1	5.3
WNW	.0	.4	.5	.1								1.4	6.3
NW	.4	.5	.4	.3								1.9	6.4
NNW	1.7	.0	1.7	.1								3.7	5.3
VARBL													
CALM												8.0	
	12.0	25.6	30.4	20.7	3.1	.7						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 2259

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

STATION NAME

YEARS

YEARS

MONTH

MONTH

ALL WEATHER

CLASS

HOURS (L.S.T.)

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.3	3.3	1.3	.3							7.7	7.3
NNE	.7	2.7	1.7	.7								1.7	6.8
NE	1.7	3.3	3.7	2.7	1.7							10.7	8.9
ENE	1.7	1.7	2.7	2.7	2.3	.7						11.7	11.3
E	.7	2.3	5.7	5.3	2.7	.7						12.7	10.9
ESE		2.3	4.7	1.7	.3							3.7	5.9
SE		1.7	2.7	1.7	.3							4.7	7.5
SSE		.7	1.7	.7		.7						2.7	11.3
S		1.7	1.7	1.3								3.7	4.6
SSW	.7	1.7	2.7	.7								4.7	7.8
SW	.7	.3	.3	.7		.7						2.7	10.5
WSW	.7	1.7	.7	.3								2.7	6.3
W	.7	1.7	2.7	.7								5.7	7.1
WNW		1.7		1.7								2.7	7.2
NW	.7	.7	1.7	.7								2.7	7.6
NNW	.7	1.7	1.7	.7								2.7	7.1
VARBL													
CALM												7.0	
	1.7	22.7	33.3	21.3	6.7	1.7						100.0	

TOTAL NUMBER OF OBSERVATIONS

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION WINDY ISLAND STATION NAME 77-17.81-92 YEARS 1977 MONTH 10

CLASS ALL WEATHER

CONDITION

HOURS (L.S.T.) 24

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.7	2.2	.6								5.5	6.2
NNE	.6	1.7	1.7	1.7								5.5	5.2
NE		1.7	1.1	2.2	1.7							5.5	12.2
ENE	1.1	2.2	2.2	1.1	3.3							5.5	12.9
E		1.7	5.6	6.1	1.7	.6						14.4	11.2
ESE		2.2	2.2	1.7		.6						5.5	12.2
SE		1.7	1.7	3.2								7.2	12.1
SSE	1.1	1.1	1.1	.6		.6						4.4	7.9
S		.6	3.2	.6								4.4	5.4
SSW			.6	1.1								1.7	11.7
SW			1.1	.6	.6							2.2	12.1
WSW	.6	1.7	1.1									3.2	5.7
W	2.2		1.1	.6								3.2	5.1
WNW	.6		1.1	1.7	.6							3.2	11.1
NW	1.1	.6		1.1								2.2	7.6
NNW	.6	2.2	1.1	1.7								5.5	7.4
VARBL													
CALM												11.1	
	1.1	1.1	2.2	2.2	7.7	1.7						15.5	

TOTAL NUMBER OF OBSERVATIONS 111

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 751A STATION NAME 751A YEARS 77-80 MONTH NOV  
 CLASS ALL WEATHER  
 HOURS (LST) 07  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.7	.7	1.7								4.7	7.7
NNE	1.3	2.7	2.7	.7								8.7	5.8
NE	.7	1.3	1.3	2.7	.7							6.7	10.0
ENE	1.7	3.3	3.3	2.7	2.3							13.7	6.6
E	.7	2.7	5.7	3.3	2.3	.7						13.7	10.9
ESE	.7	1.7	1.7	3.3								6.7	10.1
SE	.7	1.7	1.7	1.7	.7							5.7	8.7
SSE	.7	.7	.7	1.3		.7						3.7	11.3
S	.7	2.3	1.7	.7	.7							5.7	8.1
SSW		.7	.7	1.3								2.7	8.8
SW	.7	1.7	2.7	1.3	.7							5.7	9.4
WSW			1.7	1.3		.7						3.7	11.6
W	1.7	1.7	1.7	1.7								5.3	7.2
WNW	1.7	.7	2.7	.7								4.7	6.4
NW	.7	.7	1.7	.7								2.7	6.5
NNW	.7	1.7	1.7	.7	.7							3.7	6.5
VARBL													
CALM												7.7	
	11.7	21.7	20.7	21.3	7.3	1.7						10.7	8.4

TOTAL NUMBER OF OBSERVATIONS 710

SMOS



3  
24084437  
1225

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION MT. WY. ISLAND STATION NAME 73-PC YEARS NOV  
 CLASS ALL WEATHER MONTH 10  
 CONDITION  HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0	2.0	.7								6.7	4.3
NNE	.7	1.7	1.7	1.0								4.7	7.5
NE	.7	1.7	2.7	4.3	.7							10.7	9.9
ENE	1.0	3.3	2.3	2.7	1.7	.7						11.7	10.5
E	.7	2.7	4.7	5.0	1.7	.3						14.7	11.0
ESE		2.0	2.7	3.7								7.7	9.8
SE		2.0	1.0	1.0	.3							4.3	8.3
SSE	.7	.3	.7	1.0	.3	.7						3.0	15.1
S		.3	2.3	1.0	.3							6.0	8.4
SSW	.7	1.3	1.3	1.0								4.0	8.1
SW	.7	1.0	1.7	1.0		.7						4.0	8.5
WSW	.3		1.7	.7	.3	.3						3.0	11.0
W	.7	2.7	2.0	.3								5.7	6.5
WNW	.3	.3	1.7	.7								3.0	7.1
NW	.7	1.0	1.7	1.0	.7							5.0	8.9
NNW	.7	.3	1.7	1.3								4.0	5.8
VARBL													
CALM												2.7	
	1.0	25.7	30.7	25.7	6.0	2.3						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 300

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 071 MIDWAY ISLAND STATION NAME 73-00 YEARS NOV  
CLASS ALL WEATHER MONTH 17  
CONDITION HOUSE 11.57

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.7	2.7	1.7								7.7	7.6
NNE	.7	.7	1.7	1.7								4.3	7.5
NE	.7	2.7	3.7	3.7	.3	.3						10.0	9.5
ENE	.7	2.3	3.3	1.7	2.3	1.7						11.0	11.9
E	.7	2.7	4.3	5.0	1.3	.7						14.7	10.7
ESE	.7	1.0	2.7	2.3			.7					7.7	9.4
SE	1.0	1.7	.7	1.3								4.7	7.1
SSE		.7	2.7	1.0		.7						4.0	10.8
S	.7	1.0	1.3	1.0	1.3							5.0	12.9
SSW	.7	2.0	.7	1.3								4.7	7.0
SW	.7	.3	2.0	1.3	.3	.3						5.0	2.7
WSW	.3	1.0	1.7	.7		.7						3.7	9.1
W	1.0	2.3	3.0	.3								6.7	6.3
WNW		.3	1.7	1.0								3.0	3.9
NW	.3	1.0	1.0	.7								3.0	3.3
NNW	.7	2.0	.7	.7	1.7							5.7	10.6
VARBL													
CALM												1.7	
	1.3	23.0	32.7	24.7	7.3	2.7	.3					100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 300

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION MIDWAY ISLAND STATION NAME 73-02 YEARS NDV  
ALL WEATHER CLASS 15  
 CONDITION HOURLY (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.3	2.7	1.3								7.7	7.3
NNE	1.7	2.0	4.7	1.3								8.7	7.7
NE	.7	1.3	7.7	2.3	.7							7.7	9.9
ENE	1.7	1.7	4.3	2.3	2.7							11.3	10.4
E	.7	2.0	4.7	4.3	1.7	1.3	.3					15.7	12.0
ESE	.7	.7	4.7	.7	.3							7.7	8.4
SE	.7	.3	2.0	.7								3.3	8.5
SSE	.7	1.7	1.7	.7	.3							3.7	8.0
S	1.7	.7	.7	.3								3.7	6.2
SSW		1.7	.3	1.7								3.7	8.3
SW	.7	.3	2.7	1.7								4.3	9.2
WSW		1.7	1.3	1.7			.3					3.7	10.5
W	.7	4.7	2.7	.7								7.7	8.8
WNW	.7	.7	1.3	1.7								3.3	8.3
NW		1.7		1.7	.7							3.7	12.0
NNW	1.7	1.7	2.3	1.7	.3							6.7	8.8
VARBL													
CALM												2.3	
	8.7	20.7	36.3	23.0	6.0	1.7	.7					100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 300

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 12-52 STATION NAME MIDWAY ISLAND YEARS 1952 MONTH NOV  
CLASS ALL WEATHER MONTH 19  
CONDITION 19

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.7	2.7		.3							5.7	6.8
NNE	1.7	2.0	1.3	2.0								6.7	7.9
NE	1.0	1.7	5.7	2.7		.7						11.7	9.1
ENE	.7	1.7	2.7	4.0	2.7	.3						13.3	10.4
E		1.0	3.7	4.0	1.3	.7						12.0	11.0
ESE		1.7	2.7	1.7								6.0	8.2
SE	.3	1.0	.7	.7								2.7	8.6
SSE	.7	1.0	.7	.3	.7							3.0	9.3
S		1.7	1.0	.7								3.3	8.1
SSW		1.7	.7	1.0								3.0	8.1
SW	1.0	2.0		.7		.7						3.7	6.7
WSW		.7	1.3	.7		.3						3.0	9.7
W	1.7		3.3	.3								4.7	7.4
WNW	1.0	.3	3.0	.3	.3							5.0	7.7
NW		.3		1.3								1.7	12.2
NNW	.7	1.3	3.0	2.0	.3							7.0	9.5
VARBL													
CALM												7.7	
	2.7	21.7	31.7	22.0	5.7	1.7						100.0	8.4

TOTAL NUMBER OF OBSERVATIONS 100

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

MIDWAY ISLAND

STATION NAME

73-77, 81-82

YEARS

NO.

DORTH

ALL WEATHER  
CLASS

22  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.7	1.1	1.7	.6							6.1	8.5
NNE	1.1	2.2	2.2	4.4								9.2	7.1
NE	1.1	2.2	2.3	2.2		.6						9.4	6.6
ENE	.6	.6	2.2	3.9	3.3	.6						11.6	13.6
E	.6	3.3	3.2	6.6	1.1	.6	.6					16.6	11.3
ESE	.6		4.4	1.7								6.6	10.3
SE		1.1	1.1	.6		.6						3.3	11.0
SSE	.6	1.1	1.1	.6		.6						3.2	9.0
S	.6	.6	.6	.6								2.2	7.3
SSW	.6		1.7	1.7	.6							4.4	10.0
SW		1.1										1.1	4.2
WSW		1.1	1.1	.6								2.2	7.6
W		2.2	1.7	.6								4.4	7.8
WNW		1.1		2.2								3.3	10.7
NW	.6	.6		.6								1.7	7.0
NNW		.6	2.2	2.2								5.0	10.4
VARBL													
CALM												7.7	
	7.2	12.3	27.1	22.8	5.5	2.2	.6					100.0	9.3

TOTAL NUMBER OF OBSERVATIONS

191

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION MOORE ISLAND STATION NAME MOORE ISLAND YEARS 1950-52 MONTH NOV  
CLASS ALL WEATHER HOURS (L.S.T.) ALL  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.0	2.0	1.0	.1							5.3	7.2
NNE	1.0	1.0	2.1	1.5								6.4	7.6
NE	.7	2.0	2.0	2.7	.6	.1						9.2	9.6
ENE	1.2	2.2	3.0	2.7	2.4	.4						11.3	11.0
E	.4	2.5	4.6	4.8	1.7	.5	.1					14.6	11.1
ESE	.7	1.4	2.1	2.0	.1	.0	.0					7.0	9.3
SE	.0	1.3	1.7	1.2	.2	.0						4.3	3.8
SSE	.0	.7	1.0	.7	.2	.3						3.3	10.3
S	.0	1.7	1.5	.8	.3							4.2	9.7
SSW	.0	1.2	.0	1.2	.0							3.5	9.3
SW	.0	.8	1.2	.9	.0	.2						3.7	9.1
WSW	.2	.8	1.2	.7	.0	.2	.0					3.3	9.2
W	.3	1.7	2.2	.6								5.5	6.9
WNW	.5	.5	1.4	1.0	.1							3.5	8.6
NW	.4	.7	.7	1.0	.2							2.9	9.1
NNW	.5	1.2	1.5	1.2	.4							5.1	9.0
VARIABLE													
CALM												5.5	
	0.9	22.0	31.2	24.0	6.5	1.3	.2					100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 2162

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 071 MIDWAY ISLAND STATION NAME 73-82 YEARS DEC  
MONTH 01  
HOURS (L.S.T.)  
ALL WEATHER  
CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.6	1.1									4.2	4.6
NNE	1.1	1.7	2.2	.6								5.1	7.1
NE	.6	1.7	1.6	1.1								5.2	6.9
ENE	1.7	.6	.6	1.9								4.5	8.3
E	.6	2.3	2.6	2.6	1.9							10.1	10.5
ESE			1.7	.3	.6							2.9	11.1
SE	.7	1.3		1.7								2.6	7.6
SSE		.6	2.3	2.3								5.2	9.9
S	.7	.6	1.6	1.6								4.2	9.2
SSW		.6	1.9	1.9	.3							4.2	10.7
SW	.7	1.3	1.7	2.9	.3	.3						6.1	11.4
WSW	1.7	1.7	2.6	2.3								6.1	9.1
W	1.7	1.7	3.9	2.9								9.1	8.6
WNW	.6	1.9	1.3	1.6	.3							5.5	8.9
NW	.7	1.7	.3	1.3	.6							3.5	10.7
NNW	1.7	1.7	1.6	2.6	.3							6.1	8.6
VARBL													
CALM												9.7	
	11.4	13.1	28.2	26.0	4.5	.3						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 308

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION MT CROSBY ISLAND STATION NAME 73-77.81-92 YEARS DEC  
CLASS ALL WEATHER MONTH 04  
CONDITION HOURLY (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.4	1.0	.5								5.2	6.0
NNE	1.0	2.4	1.0	1.0								5.7	6.4
NE	1.0	1.0	2.6	.5	.5							6.2	7.6
ENE		1.0	1.5	1.0								4.1	6.6
E	1.0	1.0	3.1	1.0	.5							6.7	9.3
ESE	.5	1.0	1.5	2.1	.5	.5						6.2	11.0
SE			2.4	.5								3.1	5.7
SSE		.5	1.0	1.0	.5							3.1	12.3
S		2.1	2.1	2.1	.5							6.7	9.8
SSW		1.0	1.5	3.6	.5							7.7	11.0
SW		.5	1.5	2.1	2.1	.5						6.7	14.4
WSW	.5	1.0	2.1	3.1	.5							7.2	10.1
W	1.0	.5	1.5	3.1	.5							6.7	12.0
WNW	1.0	2.1	3.1	1.5								7.7	7.8
NW		.5	1.0	2.1								3.6	10.6
NNW		1.0	1.5	1.5	.5							4.6	10.6
VARBL													
CALM												9.3	
	2.7	19.4	25.2	26.5	6.7	1.0						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 194

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 77 WILKINSON STATION NAME 73-07 YEARS DEC  
MONTH 07  
HOURS (L.S.T.) 07  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.7	1.7	.3							5.0	6.7
NNE	1.0	3.2	1.3	1.6								7.1	7.0
NE	1.0	2.6	1.9	1.3								6.5	7.3
ENE	.5	2.3	1.6	1.2								5.5	7.1
E		1.1	2.3	2.3	1.3							7.5	10.8
ESE	.3	.6	1.6	1.3	.6							4.5	10.8
SE		1.0	1.7	.6								2.5	8.1
SSE	.5	.6	1.2		.6							3.2	6.2
S	.5	1.0	2.0	1.9								6.5	8.6
SSW	.3	1.0	2.5	2.6	.3							7.1	10.1
SW		.7	2.3	2.6		.6						5.0	11.7
WSW	1.0	1.0	1.3	2.6	1.6							7.5	10.9
W	.5	1.7	1.7	4.5	.3							9.1	10.0
WNW	.3	.6	1.0	1.0	.6							4.5	10.4
NW		.5	2.6	1.9	.3							5.5	10.2
NNW	.5	.5	1.7	1.6								4.2	9.5
VARBL													
CALM												5.0	
	5.4	20.6	30.0	27.9	6.2	.6						100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 306

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 0000 MILWAUKEE ISLAND STATION NAME 73-40 YEARS 0-6  
CLASS ALL WEATHER SOUTH 10  
CONDITION 10 HOURS 11 5 7

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.6	1.7	1.3								4.5	7.2
NNE	1.7	1.6	1.3	.3								4.2	6.2
NE	.7	1.6	1.6	1.3								5.2	7.8
ENE		1.7	4.5	2.6	.3							9.4	9.9
E	.7	1.7	2.5	3.2	1.3							8.5	10.9
ESE	.7	.6	1.7	.6	.6							3.2	9.3
SE	.7	1.7	.3	1.6								2.2	8.7
SSE	.7		2.6	1.6	.3							4.5	10.4
S	.7	1.9	2.3	2.6	.6							7.8	9.8
SSW		1.7	.6	2.9	1.7							1.5	12.4
SW	.7	1.3	2.3	2.9	.6	.7						5.2	11.1
WSW		.7	1.9	2.3		.7						8.2	11.9
W	.7	3.2	3.2	3.9	.6							11.4	9.1
WNW	.6	1.3	.7	1.9								4.2	8.2
NW		1.6	1.7	2.3	.3							5.2	9.8
NNW	.7	.6	2.3	1.3	.3							4.9	9.9
VARS													
CALM												4.5	
	6.2	20.4	23.9	32.5	6.2	.7						100.5	9.3

TOTAL NUMBER OF OBSERVATIONS 308

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION STONEY ISLAND STATION NAME 73-42 YEARS DEC  
CLAS ALL WEATHER MONTH 12  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.3	2.7	.7								7.7	8.5
NNE	1.7	.7	1.7									2.7	3.1
NE	.7	.7	2.7	1.6	.3							4.7	7.8
ENE	.7	1.6	2.3	2.9								7.7	9.2
E	.7	1.7	3.6	4.2	.7							9.8	10.9
ESE			.7	1.7	.3							3.7	11.5
SE	.7	1.3	1.7	.7								3.6	7.9
SSE		.7	1.7	.7	.3							2.6	3.3
S	.7	2.7	1.7	2.6								6.6	9.8
SSW	.7	1.3	2.7	3.9	.3							9.9	9.9
SW		1.7	1.6	3.3	1.3	.3						7.8	12.5
WSW		.7	1.6	1.6	1.7	.7						5.7	13.5
W	1.7	2.7	2.9	2.3	2.7							10.4	7.6
WNW		1.6	2.7	2.3								5.7	10.0
NW		1.6	1.6	3.3								6.6	10.6
NNW	.7	1.3	2.7	1.7		.7						4.7	7.7
VARBL													
CALM												1.7	
	1.7	19.9	33.2	31.2	6.2	1.7						100.0	9.7

TOTAL NUMBER OF OBSERVATIONS 327

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION MT. CROOK ISLAND STATION NAME MT. CROOK ISLAND YEARS 17-21 MONTH ALL

CLASS ALL WEATHER

CONDITION

HOURLY (LST) 18

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.7	1.7	1.3								5.7	7.5
NNE	1.7	1.7	2.0	.6								5.7	7.5
NE	.7	1.7	1.7	1.3								4.9	6.1
ENE	.7	1.7	2.6	1.6	1.7							6.0	10.1
E		1.7	3.6	2.6	.6							7.5	10.8
ESE	.7	1.7	1.6	1.9	.3							5.7	9.6
SE		.7	1.6	.6	.3	.7						3.2	11.6
SSE	.7	1.3	.6	.6								2.9	7.8
S	.7	1.6	1.7	1.3	1.6							6.5	12.2
SSW	.7	.6	2.3	2.6	.3							6.0	12.2
SW		.7	.6	3.9	1.7							5.0	13.2
WSW	.7	1.6	2.2	1.7	.6							7.1	9.5
W		1.7	3.7	2.6								8.4	4.3
WNW		1.7	2.3	2.6	.3	.7						7.7	10.4
NW	.7	2.3	.6	2.3	1.7	.3						6.5	10.5
NNW	1.7	2.3	4.7	.6	.7							6.4	7.7
VARBL													
CALM												1.6	
	7.1	22.1	34.7	27.9	7.5	1.7						110.0	9.5

TOTAL NUMBER OF OBSERVATIONS 702

SMOS



3  
1

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: PIEDMONT ISLAND CLASS: 11-12 YEARS: 73-74 NORTH: 2-3  
 STATION: 11-12 CLASS: 11-12 HOURS (LST): 10  
 CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	2.0	1.0								6.0	2.9
NNE		1.0	2.0	1.0								5.0	7.4
NE			1.0	1.0								3.0	7.9
ENE	1.0	1.0	2.0	2.0	1.0							7.0	6.0
E	1.0	1.0	2.0	1.0	1.0							7.0	11.0
ESE		1.0	2.0	2.0	1.0							3.0	12.1
SE	1.0	1.0	1.0	1.0								2.0	7.0
SSE	1.0	1.0	1.0	1.0	1.0							3.0	7.3
S		1.0	2.0	2.0	2.0							5.0	9.8
SSW		1.0	1.0	1.0	1.0	1.0						4.0	10.6
SW		1.0	1.0	3.0	1.0	1.0						5.0	12.3
WSW		1.0	1.0	2.0	1.0	1.0						6.0	10.1
W		2.0	1.0	2.0	2.0							7.0	9.1
WNW	1.0	1.0	2.0	1.0	1.0							7.0	6.5
NW	1.0	1.0	1.0	1.0	1.0							4.0	6.1
NNW	1.0	1.0	2.0	2.0	1.0							5.0	6.7
VARBL													
CALM												7.0	
	11.0	11.0	22.0	27.0	5.0							10.0	6.6

TOTAL NUMBER OF OBSERVATIONS: 100

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 2701 MIDDLE ISLAND STATION NAME 73-77.81-22 YEARS DEC  
MONTH 22  
HOURS (LST) 22  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.6	2.1	.7								7.2	5.7
NNE	.7	2.6	2.6	.5								6.2	7.1
NE	1.7	2.1	2.6	.5								6.7	7.0
ENE	.5	1.7		1.5	.5							3.4	10.1
E		1.7	4.1	1.5	2.1	.5						9.2	11.7
ESE	.7	.5	1.5	2.1								4.5	10.3
SE		2.6	1.7	.5								4.1	7.5
SSE	.5	1.7	1.7	.5	.5							3.6	8.3
S	.5	.5	1.7	2.1								4.1	9.9
SSW		1.7	2.1	2.6	1.7							7.2	10.9
SW	.5		.5	2.1	2.1							5.1	14.2
WSW	.7	1.7	.5	6.2	.5							8.7	11.7
W	.5	.5	4.1	2.1								7.2	5.9
WNW		1.7	1.7	3.1		.5						5.6	12.2
NW	1.7		.5	2.6								4.1	9.6
NNW	1.7	2.6	2.6	1.7								7.2	2.4
VARBL													
CALM												6.7	
	3.2	20.5	27.2	22.2	5.7	1.7						110.2	3.9

TOTAL NUMBER OF OBSERVATIONS 125

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 001 MIDWAY ISLAND STATION NAME 73-60 YEARS 040 MONTH ALL  
CLASS ALL  
HOURS (LST) ALL  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.7	1.7	.7	.7							5.6	6.4
NNE	1.1	1.1	2.1	.7								5.7	6.6
NE	.3	1.4	1.7	1.1	.1							5.2	7.8
ENE	.7	1.7	2.1	2.7	.3							6.4	9.0
E	.7	1.2	3.1	2.5	1.3	.1						8.4	10.3
ESE	.5	.5	1.5	1.4	.4	.2						4.1	10.6
SE	.2	1.7	1.1	.8	.2	.2						3.1	9.5
SSE	.4	.2	1.4	.9	.3							3.2	9.1
S	.1	1.3	1.2	2.1	.4							6.1	9.5
SSW	.7	.7	2.1	2.6	.5							6.4	10.6
SW	.2	.1	1.4	3.2	.9	.3						6.5	12.4
WSW	.1	1.2	1.2	2.6	.7	.1						6.5	10.8
W	.7	1.8	2.8	3.2	.4							8.9	9.5
WNW	.4	1.6	1.2	2.2	.2	.1						6.1	9.5
NW	.3	1.3	1.2	2.2	.4	.2						5.1	10.0
NNW	.5	1.4	2.3	1.5	.2	.2						6.2	9.6
VARBL													
CALM												5.5	
	6.5	12.7	30.3	27.0	6.2	.7						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 2236

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 071 MOORE ISLAND 73-82 YEARS ALL  
STATION NAME ALL SEATHER CLASS ALL  
CONDITION ALL  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.0	1.7	.4	.0	.0	.0					3.0	6.5
NNE	1.1	2.0	1.7	.6	.0	.0						5.5	6.5
NE	.0	1.0	2.7	1.8	.2	.0						7.5	8.3
ENE	1.1	2.0	4.4	3.4	.6	.1		.0				12.2	9.1
E	.7	3.3	6.6	5.0	.7	.1	.0	.0				16.4	9.5
ESE	.5	1.0	3.3	2.0	.3	.0	.0	.0				7.9	8.8
SE	.5	1.5	2.2	1.3	.1	.0						5.7	9.2
SSE	.5	1.1	1.5	1.0	.2	.0						4.6	8.4
S	.5	1.7	2.1	1.5	.3	.1	.2					6.1	8.7
SSW	.7	1.0	1.5	1.3	.3	.0			.0			4.5	9.4
SW	.7	.7	1.2	1.3	.3	.1	.0					4.0	10.4
WSW	.3	.7	1.0	.8	.2	.1	.0					3.1	9.3
W	.7	1.2	1.4	1.0	.2	.0						4.5	8.4
WNW	.4	.7	.9	.9	.2	.0						3.1	9.2
NW	.3	.7	.9	1.0	.2	.0	.0					3.0	9.6
NNW	.5	.0	1.7	.6	.1	.0						3.4	7.9
VARBL													
CALM												4.5	
	2.5	23.2	34.2	23.0	3.0	.7	.1	.0	.0			100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 26270

SMOS



3

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION MIDWAY ISLAND STATION NAME 17-00 YEARS ALL  
INSTRUMENT ALL GORTH ALL  
CLASS ALL HOURS (L S Y) ALL  
CONDITION CIG 200 TO 1400 FT W/VSBY 1/2 MI 0- MO-1  
AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.2	2.0	1.1	.1	.1						6.1	7.8
NNE	1.1	3.1	3.0	1.5		.1						9.5	7.7
NE	.1	2.5	3.6	5.3	.2	.1						12.3	11.1
ENE	.4	1.3	3.1	5.1	.8	.2		.1				11.0	11.4
E	.7	1.7	3.1	4.1	.7	.2	.1					10.3	11.0
ESE	.1	.7	1.5	2.3	1.1	.1	.2					6.0	12.5
SE	.1	.3	1.3	1.6	.5	.1						3.9	11.5
SSE	.2	.5	1.0	1.2	1.1	.1						4.1	12.2
S	.4	.5	2.0	2.2	.8	.1	.1					6.8	11.2
SSW	.1	.3	1.4	1.3	.5	.1						3.7	11.5
SW		.5	1.0	1.6	.6	.3						4.7	13.0
WSW	.7	.3	.2	1.1	.3	.3						3.2	11.9
W	.7	1.2	1.5	2.4	.3							5.7	13.0
WNW	.2	1.2	.4	1.1	.1	.1						3.3	12.4
NW	.3	.1	.7	1.1	.6	.1	.1					3.1	12.8
NNW	.5	.2	2.1	1.0								4.4	8.2
VARBL													
CALM												2.0	
	5.7	16.7	30.2	33.8	7.9	2.1	.5	.1				100.0	11.2

TOTAL NUMBER OF OBSERVATIONS 645

SMOS



NOCD, Federal Building  
Asheville, N. C.

## PART D

## CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By Month - all years and all hours combined
3. By Month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

Beginning in July 1948 for Air Force stations and January 1949 for NWS and U.S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.



EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	$\geq 0$
NO CEILING																
1800																
1500					91.0											92.6
1200																
1000																
900																
800																
700																
600																
500										97.4						98.1
400																
300																
200																
100																
0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.



## PART D

### ADDITIONAL EXAMPLES

#### EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.

Thus, to obtain the percentage of observations with ceiling  $< 1500$  feet and/or visibility  $< 3$  miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling  $< 1500$  feet and/or visibility  $< 3$  miles.

Likewise, the percentage of observations with ceiling  $< 500$  feet and/or visibility  $< 1$  mile is 2.6, obtained by subtracting 97.4 from 100.0.

#### EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $\geq 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.



## PART D

## SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover and total number of observations. It is presented in two tables as follows:

1. By month and annual - all hours and all years combined.
2. By month - by standard 3-hour groups.

NOTE: #1: Sky cover (total cloud amount) was not reported by U.S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: #2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

<u>OKTAS</u>	<u>TENTHS</u>
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

NOTE: #3: Beginning in 1981 the symbols of Clear, Scattered, Broken, Overcast, and Obscured were used as input for the Total Sky Cover. Following are the conversions:

Clear converted to 0/10  
Scattered converted to 3/10  
Broken converted to 9/10  
Overcast converted to 10/10  
Obscured converted to 10/10



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

MIDWAY ISLAND

STATION NAME

73-02

YEARS

JAN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)01  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	51.2	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 20000	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
IV 18000	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
IV 16000	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
IV 14000	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
IV 12000	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
IV 10000	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
IV 9000	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
IV 8000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 7000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
IV 6000	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
IV 5000	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
IV 4500	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
IV 4000	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
IV 3500	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
IV 3000	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
IV 2500	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
IV 2000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
IV 1800	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
IV 1500	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 1200	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 1000	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 900	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 800	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 700	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 600	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 500	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 400	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 300	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 200	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 100	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS

289

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
01701STATION NAME  
WINDY ISLAND

73-70,82

YEARS

JAN  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)74  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	7.7	10.3	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 20000	7.7	11.5	51.5	51.5	51.5	51.5	51.5	11.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
IV 18000	7.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 16000	7.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 14000	7.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 12000	7.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 10000	7.7	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 9000	7.7	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV 8000	7.7	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
IV 7000	7.7	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
IV 6000	7.7	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
IV 5000	7.7	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 4500	7.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
IV 4000	10.7	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
IV 3500	10.7	69.9	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
IV 3000	10.7	74.5	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 2500	10.7	81.6	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV 2000	10.7	87.2	88.8	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 1800	10.7	87.2	88.8	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 1500	10.7	89.3	93.4	93.9	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
IV 1200	10.7	89.3	93.9	94.4	95.4	95.4	95.4	96.9	96.9	97.5	97.5	97.5	97.5	97.5	97.5
IV 1000	10.7	90.3	94.9	95.4	96.4	96.4	96.4	98.0	98.0	98.5	98.5	98.5	98.5	98.5	98.5
IV 900	10.7	90.3	94.9	95.4	96.4	96.4	96.4	98.5	98.5	99.0	99.0	99.0	99.0	99.0	99.0
IV 800	10.7	90.3	94.9	95.9	96.9	96.9	96.9	97.5	99.0	99.0	99.5	99.5	99.5	99.5	99.5
IV 700	10.7	90.3	94.9	95.9	96.9	96.9	96.9	97.5	99.0	99.0	99.5	99.5	99.5	99.5	99.5
IV 600	10.7	90.3	94.9	95.9	96.9	96.9	96.9	97.5	99.0	99.0	99.5	99.5	99.5	99.5	99.5
IV 500	10.7	90.8	95.4	96.4	97.5	97.5	98.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	10.7	90.8	95.4	96.4	97.5	97.5	98.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	10.7	90.8	95.4	96.4	97.5	97.5	98.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	10.7	90.8	95.4	96.4	97.5	97.5	98.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	10.7	90.8	95.4	96.4	97.5	97.5	98.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	10.7	90.8	95.4	96.4	97.5	97.5	98.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 126

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	5.1	45.9	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 20000	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 18000	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 16000	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 14000	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 12000	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 10000	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 9000	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 8000	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 7000	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 6000	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 5000	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 4500	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 4000	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 3500	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 3000	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 2500	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 2000	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 1800	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 1500	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 1200	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 1000	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 900	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 800	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 700	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 600	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 500	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 400	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 300	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 200	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 100	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 0	5.1	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1

TOTAL NUMBER OF OBSERVATIONS 316

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
MIDWAY ISLAND

STATION NAME

73-12

YEARS

JAN  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)12  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	17.7	38.1	30.1	31.1	38.1	78.1	38.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
≥ 20000	11.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
IV 18000	11.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
IV 16000	11.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
IV 14000	11.0	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
IV 12000	11.0	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
IV 10000	11.7	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
IV 9000	11.0	45.2	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
IV 8000	12.6	49.0	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
IV 7000	12.6	52.6	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
IV 6000	12.6	52.6	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
IV 5000	12.6	54.5	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
IV 4500	13.0	57.7	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
IV 4000	13.0	62.3	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 3500	13.9	65.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
IV 3000	14.8	73.9	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
IV 2500	15.1	79.7	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
IV 2000	16.0	96.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV 1800	16.0	97.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
IV 1500	16.0	96.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
IV 1200	16.0	90.3	94.5	95.2	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 1000	16.0	90.3	95.8	96.5	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 900	16.0	90.3	95.8	96.8	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 800	16.0	90.3	95.8	97.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 700	16.0	90.3	95.8	97.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 600	16.0	90.3	95.8	97.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 500	16.0	90.3	95.8	97.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 400	16.0	90.3	95.8	97.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 300	16.0	90.3	95.8	97.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 200	16.0	90.3	95.8	97.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 100	16.0	90.3	95.8	97.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 0	16.0	90.3	95.8	97.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS 110

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	14.2	51.7	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 20000	14.3	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
18000	14.5	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
16000	14.5	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
14000	14.7	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
12000	14.8	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
10000	14.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
9000	14.5	46.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
8000	15.7	51.3	51.6	51.6	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
7000	15.7	54.2	55.2	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
6000	15.7	54.1	54.1	54.1	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
5000	15.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
4500	15.7	57.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
4000	15.4	64.8	65.8	65.8	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
3500	17.1	70.7	71.9	71.9	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
3000	17.7	76.5	76.5	76.5	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
2500	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
2000	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
1800	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
1500	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
1200	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
1000	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
900	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
800	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
700	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
600	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
500	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
400	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
300	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
200	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
100	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
0	17.7	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5

TOTAL NUMBER OF OBSERVATIONS

213

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

NORTH

HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)16  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	17.1	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
IV 20000	17.1	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
IV 18000	17.1	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
IV 16000	17.1	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
IV 14000	17.1	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
IV 12000	17.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 10000	17.1	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
IV 9000	17.1	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
IV 8000	17.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 7000	17.1	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV 6000	17.1	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 5000	17.1	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
IV 4500	17.1	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
IV 4000	17.1	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 3500	17.1	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
IV 3000	17.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
IV 2500	22.5	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IV 2000	22.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 1800	22.5	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
IV 1500	24.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 1200	24.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 1000	24.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 900	24.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 800	24.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 700	24.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 600	24.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 500	24.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 400	24.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 300	24.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 200	24.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 100	24.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 0	24.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3

TOTAL NUMBER OF OBSERVATIONS

16

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION: MIDWAY ISLAND STATION NAME: 73-20 YEARS: J44 MONTH: 19 HOURS (LST):

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 20000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 18000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 16000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 14000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 12000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 10000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 9000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 8000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 7000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 280

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

WILKINSON ISLAND

STATION NAME

74-75, 82

YEARS

JAN

NORTH

22

HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 20000	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 18000	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 16000	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 14000	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 12000	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 10000	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
IV 9000	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 8000	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
IV 7000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 6000	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
IV 5000	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
IV 4500	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
IV 4000	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
IV 3500	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
IV 3000	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
IV 2500	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
IV 2000	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 1800	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
IV 1500	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
IV 1200	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IV 1000	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 196

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

7701

HICKORY ISLAND

77-42

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	10.0	43.3	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
IV 20000	10.0	45.3	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 18000	10.0	45.5	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 16000	10.0	45.5	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 14000	10.0	46.7	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
IV 12000	11.1	47.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 10000	11.1	48.7	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
IV 9000	11.1	49.4	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
IV 8000	11.1	52.2	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
IV 7000	11.1	54.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
IV 6000	11.1	55.7	55.7	55.8	55.8	55.8	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
IV 5000	11.1	57.4	58.1	58.2	58.2	58.3	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
IV 4500	11.1	59.4	60.5	60.5	60.6	60.6	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
IV 4000	12.1	63.7	65.2	65.3	65.3	65.4	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
IV 3500	12.4	68.1	69.7	69.7	69.7	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 3000	13.3	74.3	76.4	76.4	76.5	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.8
IV 2500	13.9	80.4	82.9	83.3	83.3	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.4
IV 2000	14.2	86.8	90.0	90.2	90.4	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.8
IV 1800	14.2	87.3	91.5	91.8	91.7	91.2	91.3	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4
IV 1500	14.1	91.1	94.9	95.4	95.8	96.0	96.1	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.4
IV 1200	14.1	91.7	95.3	95.8	96.3	96.6	96.8	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 1000	14.1	91.8	96.1	96.7	97.6	97.9	98.2	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 900	14.1	91.8	96.2	96.8	97.6	98.0	98.3	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.1
IV 800	14.1	91.9	96.3	97.1	97.9	98.3	98.6	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 700	14.1	91.9	96.3	97.1	98.0	98.3	98.7	99.2	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.6
IV 600	14.1	91.9	96.3	97.2	98.2	98.6	98.9	99.5	99.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9
IV 500	14.1	91.9	96.4	97.3	98.3	98.6	99.0	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
IV 400	14.1	91.9	96.4	97.3	98.3	98.7	99.0	99.6	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	14.1	91.9	96.4	97.3	98.3	98.7	99.0	99.6	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	14.1	91.9	96.4	97.3	98.3	98.7	99.0	99.6	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	14.1	91.9	96.4	97.3	98.3	98.7	99.0	99.6	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	14.1	91.9	96.4	97.3	98.3	98.7	99.0	99.6	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

2171

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

MT DORA ISLAND

73-81

YEARS

PER

HOURS

STATION

STATION NAME

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)01  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	12.0	52.0	57.0	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 20000	12.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
IV 18000	12.0	56.0	56.0	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 16000	12.0	56.0	56.0	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 14000	12.0	56.0	56.0	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 12000	12.0	56.0	56.0	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 10000	12.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
IV 9000	12.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
IV 8000	12.0	60.0	60.0	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IV 7000	12.0	63.6	63.6	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
IV 6000	12.0	63.6	63.6	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
IV 5000	12.0	64.4	64.4	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
IV 4500	13.2	66.0	66.0	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 4000	13.2	69.2	69.2	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
IV 3500	13.2	73.2	74.0	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
IV 3000	14.0	78.0	79.2	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 2500	14.0	83.6	84.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
IV 2000	14.0	88.0	90.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
IV 1800	14.0	88.0	90.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV 1500	15.0	92.0	94.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IV 1200	15.0	92.0	95.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 1000	15.0	92.0	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 900	15.0	92.0	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 800	15.0	92.0	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 700	15.0	92.0	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 600	15.0	92.0	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 500	15.0	92.0	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 400	15.0	92.0	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 300	15.0	92.0	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 200	15.0	92.0	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 100	15.0	92.0	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 0	15.0	92.0	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS 250

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

12771

MTCRAY ISLAND

73-78,81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)04  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	14.7	44.2	44.5	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 20000	14.7	47.9	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
IV 18000	14.7	47.9	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
IV 16000	14.7	47.9	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
IV 14000	14.7	47.9	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
IV 12000	14.7	47.9	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
IV 10000	14.7	49.1	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 9000	14.7	49.7	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.2
IV 8000	15.3	50.3	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
IV 7000	15.3	52.2	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 6000	15.3	52.8	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
IV 5000	15.3	54.6	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
IV 4500	15.3	56.4	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 4000	16.7	61.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
IV 3500	17.2	66.3	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
IV 3000	17.8	70.6	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 2500	19.5	79.8	81.0	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
IV 2000	21.5	86.1	88.3	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 1800	22.1	87.7	89.6	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
IV 1500	22.7	92.1	95.1	96.3	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
IV 1200	22.7	92.6	95.7	96.9	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 1000	22.7	92.6	95.7	97.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 900	22.7	92.6	95.7	97.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 800	22.7	93.3	96.3	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 700	22.7	93.3	96.3	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 600	22.7	93.3	96.3	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 500	22.7	93.3	96.3	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 400	22.7	93.3	96.3	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 300	22.7	93.3	96.9	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	22.7	93.3	96.9	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	22.7	93.3	96.9	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	22.7	93.3	96.9	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

163

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

MIDWAY ISLAND

STATION NAME

73-37

YEARS

FEET

MILES

07

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	2.1	38.7	42.1	41.8	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
IV 20000	2.2	41.2	42.2	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
IV 18000	2.2	43.3	43.6	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
IV 16000	2.2	43.3	43.6	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
IV 14000	2.2	43.3	43.6	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
IV 12000	2.2	43.3	43.6	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
IV 10000	2.2	43.6	44.0	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
IV 9000	2.2	44.0	44.3	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
IV 8000	2.2	45.1	45.4	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 7000	2.2	47.2	47.9	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
IV 6000	2.2	48.9	49.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 5000	2.2	50.7	51.4	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
IV 4500	2.2	54.3	55.3	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
IV 4000	10.3	56.2	59.2	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
IV 3500	11.4	63.5	64.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 3000	12.4	72.0	73.8	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
IV 2500	13.1	80.1	82.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
IV 2000	13.5	88.7	90.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
IV 1800	13.5	89.3	91.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 1500	13.5	92.7	95.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 1200	13.5	92.6	95.7	96.8	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IV 1000	13.5	93.3	96.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 900	13.5	93.3	96.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 800	13.5	93.3	96.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 700	13.5	93.3	96.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 600	13.5	93.3	96.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 500	13.5	93.3	96.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 400	13.5	93.3	96.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 300	13.5	93.3	96.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 200	13.5	93.3	96.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 100	13.5	93.3	96.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 0	13.5	93.3	96.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS

292

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

HITLER ISLAND

73-PC

YEARS

CFO

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

12

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	13.7	38.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
≥ 20000	13.7	41.1	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
18000	14.5	41.8	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
16000	14.5	41.8	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
14000	14.5	42.2	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
12000	14.5	42.2	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
10000	14.5	42.2	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
9000	14.5	43.6	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
8000	16.7	45.4	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
7000	16.7	48.2	48.6	48.6	48.6	48.6	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
6000	16.7	50.7	51.1	51.1	51.1	51.1	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
5000	16.7	52.3	53.6	53.6	53.6	53.6	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
4500	16.7	55.0	55.7	55.7	55.7	55.7	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
4000	17.4	58.2	59.2	59.2	59.2	59.2	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
3500	17.4	63.1	64.2	64.2	64.2	64.2	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
3000	18.2	69.2	70.6	70.6	70.6	70.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
2500	20.4	77.0	78.4	78.4	78.4	78.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
2000	21.6	85.9	87.9	88.3	88.3	88.3	89.4	89.4	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7
1800	22.0	86.2	89.3	88.7	88.7	88.7	89.7	89.7	89.7	90.1	90.1	90.1	90.1	90.1	90.1	90.1
1500	22.0	89.7	92.6	92.9	93.3	93.6	95.0	95.0	95.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4
1200	22.0	90.4	93.6	94.0	94.7	94.7	96.1	96.1	96.1	96.6	96.6	96.6	96.6	96.6	96.6	96.6
1000	22.0	90.8	94.0	94.3	94.7	95.0	96.8	97.2	97.2	97.9	97.9	97.9	97.9	97.9	97.9	97.9
900	22.0	90.8	94.0	94.3	94.7	95.0	96.8	97.5	97.5	98.2	98.2	98.2	98.2	98.2	98.2	98.2
800	22.0	91.5	95.4	95.7	96.1	96.5	98.2	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0
700	22.0	91.5	95.4	95.7	96.1	96.5	98.2	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0
600	22.0	91.5	95.4	95.7	96.1	96.5	98.2	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0
500	22.0	91.5	95.4	95.7	96.1	96.5	98.2	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0
400	22.0	91.5	95.4	95.7	96.1	96.5	98.2	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0
300	22.0	91.5	95.4	95.7	96.1	96.5	98.2	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0
200	22.0	91.5	95.4	95.7	96.1	96.5	98.2	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0
100	22.0	91.5	95.4	95.7	96.1	96.5	98.2	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0
0	22.0	91.5	95.4	95.7	96.1	96.5	98.2	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

282

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
22701STATION NAME  
MIDWAY ISLANDYEAR  
73-82MONTH  
FEBPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)HOURS (LST)  
13

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	12.4	39.7	47.1	47.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
≥ 20000	13.5	44.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IN 18000	14.2	45.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
IN 16000	14.2	45.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
IN 14000	14.2	46.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
IN 12000	14.2	46.8	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
IN 10000	14.5	48.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
IN 9000	14.5	49.7	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
IN 8000	14.9	51.8	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
IN 7000	14.9	54.3	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
IN 6000	15.3	56.8	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
IN 5000	15.0	58.2	59.6	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
IN 4500	17.7	61.8	62.8	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
IN 4000	16.1	65.3	67.4	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
IN 3500	18.8	69.2	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IN 3000	19.5	75.9	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
IN 2500	20.9	81.2	87.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
IN 2000	22.0	88.7	91.1	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
IN 1800	22.7	89.7	92.2	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IN 1500	22.7	92.2	95.0	96.8	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IN 1200	22.7	92.9	95.7	97.5	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IN 1000	22.7	93.3	96.5	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN 900	22.7	93.3	96.5	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN 800	22.7	93.3	96.5	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 700	22.7	93.3	96.5	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 600	22.7	93.3	96.5	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 500	22.7	93.3	96.5	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 400	22.7	93.3	96.5	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 300	22.7	93.3	96.5	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 200	22.7	93.3	96.5	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 100	22.7	93.3	96.5	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 0	22.7	93.3	96.5	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 262

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
17761STATION NAME  
ATKIN ISLANDYEARS  
73-74MONTH  
FEBPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)HOURS  
16

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	14.2	45.4	46.1	46.1	45.1	46.1	46.1	46.1	46.1	46.1	45.1	46.1	46.1	46.1	46.1
≥ 20000	14.2	48.9	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 18000	16.3	51.1	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
IV 16000	16.3	51.1	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
IV 14000	16.7	51.4	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 12000	16.7	51.8	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 10000	16.7	53.2	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
IV 9000	16.7	54.6	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
IV 8000	17.4	57.5	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
IV 7000	17.4	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
IV 6000	17.7	62.8	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
IV 5000	18.1	65.6	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
IV 4500	18.6	68.8	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
IV 4000	18.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
IV 3500	20.6	75.9	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
IV 3000	20.9	80.9	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
IV 2500	21.3	85.1	86.2	86.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 2000	22.3	92.2	94.0	94.3	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 1800	22.3	92.6	94.3	94.7	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IV 1500	22.3	94.0	95.7	96.1	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IV 1200	22.3	94.3	96.5	96.8	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 1000	22.3	94.7	96.8	97.5	98.9	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 900	22.3	94.7	96.8	97.5	98.9	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 800	22.3	94.7	96.8	97.5	98.9	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 700	22.3	94.7	96.8	97.5	98.9	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	22.3	94.7	96.8	97.5	98.9	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	22.3	94.7	96.8	97.5	98.9	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	22.3	94.7	96.8	97.5	98.9	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	22.3	94.7	96.8	97.5	98.9	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	22.3	94.7	96.8	97.5	98.9	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	22.3	94.7	96.8	97.5	98.9	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	22.3	94.7	96.8	97.5	98.9	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

282

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
20701STATION NAME  
PINEWAY ISLANDYEARS  
73-92FEET  
MORTH  
15  
HOURS (L & T)PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	10.4	43.5	41.2	41.0	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 20000	11.7	43.0	43.7	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
≥ 18000	11.3	43.7	44.4	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 16000	11.7	44.1	44.8	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 14000	11.7	44.1	44.8	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 12000	11.7	44.1	44.8	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 10000	12.2	47.0	47.7	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
≥ 9000	12.2	45.1	47.8	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥ 8000	12.5	42.0	52.7	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 7000	12.5	54.1	54.8	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
≥ 6000	12.5	54.8	55.6	55.9	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 5000	13.4	57.4	58.1	58.4	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 4500	14.3	58.4	59.1	59.5	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
≥ 4000	15.1	63.4	64.2	64.5	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥ 3500	15.5	67.4	68.1	68.5	68.8	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
≥ 3000	17.3	73.5	74.2	74.6	74.9	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 2500	17.5	79.7	80.7	81.0	81.4	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 2000	18.6	86.0	87.1	87.5	87.8	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 1800	18.6	86.4	87.5	87.8	88.2	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 1500	18.4	82.1	83.0	84.3	85.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 1200	18.4	82.5	84.3	84.6	85.7	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 1000	18.4	82.5	84.3	85.3	86.4	86.8	86.8	86.8	87.1	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 900	18.4	82.5	84.3	85.3	86.4	86.8	86.8	86.8	87.1	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 800	18.4	82.5	84.3	85.3	86.4	86.8	86.8	86.8	87.1	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 700	18.4	82.5	84.6	85.7	86.8	87.1	87.1	87.5	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 600	18.4	82.5	84.6	85.7	86.8	87.1	87.1	87.5	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 500	18.4	82.5	84.6	85.7	86.8	87.1	87.1	87.5	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 400	18.4	82.5	84.6	85.7	86.8	87.1	87.1	87.5	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 300	18.4	82.5	84.6	85.7	86.8	87.1	87.1	87.5	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 200	18.4	82.5	84.6	85.7	86.8	87.1	87.1	87.5	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 100	18.4	82.5	84.6	85.7	86.8	87.1	87.1	87.5	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 0	18.4	82.5	84.6	85.7	86.8	87.1	87.1	87.5	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2

TOTAL NUMBER OF OBSERVATIONS 279

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
22771STATION NAME  
HOLLY ISLANDYEARS  
73-74, 81MONTH  
FEBPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)HOURS (L.S.T.)  
22

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	¾	≥ 0
NO CEILING	15.5	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 20000	15.5	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥ 18000	15.5	53.4	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 16000	15.5	54.0	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 14000	15.5	54.0	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 12000	15.5	54.7	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 10000	15.5	56.5	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 9000	15.5	57.1	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
≥ 8000	15.5	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 7000	16.2	62.7	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 6000	16.2	62.7	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 5000	16.2	64.6	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 4500	16.2	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 4000	17.4	70.2	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 3500	17.4	70.8	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 3000	18.0	76.4	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 2500	18.0	81.4	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 2000	18.6	86.3	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 1800	18.6	86.3	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 1500	19.3	90.1	93.2	93.2	93.2	93.2	93.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 1200	19.3	90.7	93.8	93.8	93.8	93.8	93.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1000	19.3	91.9	95.0	95.7	96.9	96.9	96.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 900	19.3	91.9	95.0	95.7	96.9	96.9	96.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 800	19.3	92.6	95.7	96.3	97.5	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	19.3	92.6	95.7	96.3	97.5	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	19.3	92.6	95.7	96.3	97.5	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	19.3	92.6	96.3	96.9	98.1	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	19.3	92.6	96.3	96.9	98.1	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	19.3	92.6	96.3	96.9	98.1	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	19.3	92.6	96.3	96.9	98.1	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	19.3	92.6	96.3	96.9	98.1	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	19.3	92.6	96.3	96.9	98.1	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 151

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

FEB

MORTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)ALL  
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	17.0	43.4	45.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
≥ 20000	17.0	44.5	47.1	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
IV 18000	17.3	47.5	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
IV 16000	17.3	47.6	49.1	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
IV 14000	17.4	47.7	49.2	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
IV 12000	17.4	47.7	49.5	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 10000	17.5	49.2	49.8	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 9000	17.5	50.4	51.7	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
IV 8000	17.0	52.4	53.0	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
IV 7000	17.2	55.0	55.7	55.9	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
IV 6000	17.3	56.3	56.9	57.1	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
IV 5000	17.4	58.3	59.0	59.3	59.3	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
IV 4500	17.1	60.8	61.6	61.8	61.9	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
IV 4000	17.7	64.5	65.5	65.7	65.8	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
IV 3500	17.6	68.6	69.7	70.0	70.0	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
IV 3000	17.7	74.7	75.9	76.2	76.3	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
IV 2500	17.3	81.0	82.4	82.8	82.9	83.0	83.1	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2
IV 2000	17.1	87.4	89.8	90.5	90.7	90.7	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IV 1800	17.3	88.4	90.2	91.0	91.2	91.3	91.4	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6
IV 1500	17.6	91.9	94.5	95.4	95.8	96.0	96.2	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 1200	17.4	92.4	95.1	96.0	96.6	96.8	97.0	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 1000	17.6	92.8	95.6	96.9	97.7	97.9	98.3	98.6	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 900	17.4	92.8	95.6	96.9	97.7	97.9	98.3	98.6	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 800	17.6	93.0	95.6	97.2	98.1	98.3	98.7	99.1	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5
IV 700	17.6	93.0	95.6	97.3	98.2	98.4	98.8	99.2	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7
IV 600	17.6	93.0	96.0	97.3	98.2	98.4	98.8	99.2	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7
IV 500	17.6	93.0	96.0	97.3	98.2	98.4	98.8	99.2	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7
IV 400	17.6	93.0	96.0	97.3	98.2	98.4	98.8	99.2	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7
IV 300	17.4	93.0	96.1	97.4	98.3	98.5	99.0	99.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9
IV 200	17.4	93.0	96.1	97.4	98.3	98.5	99.0	99.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9
IV 100	17.4	93.0	96.1	97.4	98.3	98.5	99.0	99.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9
IV 0	17.5	93.0	96.1	97.4	98.3	98.5	99.0	99.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 1951

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

STATION NAME

YEARS

YEARS

MOUNT

MOUNT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS IN YEAR

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	5.0	43.6	44.7	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 20000	5.0	45.0	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
IV 18000	5.0	45.7	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 16000	5.0	46.1	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
IV 14000	5.0	46.1	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
IV 12000	5.0	47.1	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 10000	5.0	47.5	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
IV 9000	5.0	48.1	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
IV 8000	5.0	49.5	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
IV 7000	5.0	50.5	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
IV 6000	5.0	51.2	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IV 5000	5.0	53.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
IV 4500	5.0	55.7	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 4000	5.0	56.7	57.7	58.1	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
IV 3500	7.2	61.5	62.5	62.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 3000	7.2	62.4	63.5	63.8	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
IV 2500	7.2	67.0	68.4	68.8	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
IV 2000	7.2	71.1	72.2	72.6	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
IV 1800	7.2	81.4	82.6	82.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
IV 1500	7.2	86.4	87.4	87.8	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
IV 1200	7.2	93.3	93.8	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 1000	7.2	96.7	97.2	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 900	7.2	98.1	98.6	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 800	7.2	99.1	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	7.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	7.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	7.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	7.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	7.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	7.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	7.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	7.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

291

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
70701STATION NAME  
ASHEVILLE

70-77.81

YEARS

HOURS  
74PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS LL &amp; V

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	7.0	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
≥ 20000	8.0	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
IV 18000	7.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
IV 16000	7.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
IV 14000	7.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
IV 12000	7.0	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
IV 10000	7.0	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
IV 9000	7.0	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 8000	7.0	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
IV 7000	7.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
IV 6000	7.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 5000	7.0	51.6	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
IV 4500	7.0	52.7	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
IV 4000	7.0	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
IV 3500	7.0	59.7	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
IV 3000	7.0	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 2500	7.0	76.3	79.6	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
IV 2000	7.0	84.4	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
IV 1800	7.0	84.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 1500	7.0	89.8	95.2	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 1200	7.0	91.4	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 1000	7.0	91.5	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 900	7.0	91.9	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 800	7.0	91.9	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 700	7.0	91.9	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 600	7.0	92.5	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 500	7.0	92.5	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 400	7.0	92.5	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 300	7.0	92.5	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 200	7.0	92.5	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 100	7.0	92.5	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 0	7.0	92.5	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 15

DIRNAVOCEANMET SMOS



.. 00 0150 702

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
MIDWAY ISLAND(U) NAVAL OCEANOGRAPHY COMMAND DETACHMENT  
ASHEVILLE NC AUG 84

3, 4

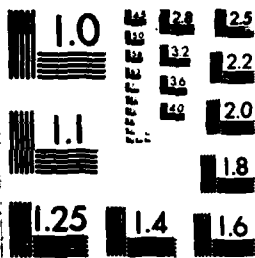
UNCLASSIFIED

F/G 4/2

N1

A 10x10 grid of squares. The top-left square is shaded gray, representing 1% of the total area.





MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
27701STATION NAME  
MIDWAY ISLANDYEARS  
73-82MONTHS  
MARPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)HOURS (LST)  
07

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	5.0	35.5	35.9	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
≥ 20000	6.5	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 18000	7.1	38.7	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
IV 14000	7.4	39.0	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
IV 14000	7.4	39.0	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
IV 12000	7.4	39.4	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
IV 10000	7.7	40.7	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
IV 9000	8.1	41.3	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
IV 8000	8.1	42.9	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 7000	8.1	44.5	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 6000	8.1	45.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
IV 5000	8.1	46.1	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
IV 4500	8.1	47.7	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
IV 4000	8.1	51.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IV 3500	8.7	57.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
IV 3000	10.3	66.5	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
IV 2500	10.3	75.2	76.1	77.1	77.1	77.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 2000	11.4	85.5	86.5	87.4	87.7	87.7	88.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
IV 1800	11.9	85.8	86.8	87.7	88.1	88.1	88.4	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
IV 1500	11.9	90.7	91.9	92.9	93.2	93.2	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 1200	11.9	91.6	92.9	93.9	94.2	94.2	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 1000	11.9	92.9	94.5	95.5	95.8	96.1	96.8	97.4	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 900	11.9	92.9	94.5	95.5	95.8	96.1	96.8	97.4	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 800	11.9	93.6	95.2	96.1	96.5	96.8	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 700	11.9	93.6	95.5	96.5	96.8	97.1	97.7	98.4	98.4	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 600	11.9	93.6	95.5	96.5	96.8	97.1	97.7	98.4	98.4	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 500	11.9	93.9	95.8	97.1	97.4	97.7	98.4	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 400	11.9	93.9	95.8	97.1	97.4	97.7	98.4	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 300	11.9	93.9	95.8	97.1	97.4	97.7	98.4	99.0	99.0	99.7	99.7	99.7	99.7	99.7	100.0	100.0
IV 200	11.9	93.9	95.8	97.1	97.4	97.7	98.4	99.0	99.0	99.7	99.7	99.7	99.7	99.7	100.0	100.0
IV 100	11.9	93.9	95.8	97.1	97.4	97.7	98.4	99.0	99.0	99.7	99.7	99.7	99.7	99.7	100.0	100.0
IV 0	11.9	93.9	95.8	97.1	97.4	97.7	98.4	99.0	99.0	99.7	99.7	99.7	99.7	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

22701

MIDWAY ISLAND

73-82

MAP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)10  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	10.7	38.7	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥ 20000	11.6	42.9	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 18000	11.6	43.6	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
IV 16000	11.6	43.9	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
IV 14000	11.6	44.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
IV 12000	11.9	44.8	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
IV 10000	11.9	45.8	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 9000	11.9	45.9	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 8000	12.9	48.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
IV 7000	13.9	50.7	51.0	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
IV 6000	14.5	52.9	53.2	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
IV 5000	15.5	56.1	56.5	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
IV 4500	15.5	56.5	56.8	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 4000	15.8	59.4	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
IV 3500	17.4	65.8	66.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
IV 3000	18.4	72.9	74.2	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
IV 2500	19.7	81.9	83.6	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
IV 2000	20.3	87.7	90.0	90.7	91.0	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
IV 1800	20.3	88.7	91.0	91.6	91.9	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
IV 1500	20.3	91.3	95.2	95.8	96.1	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 1200	20.3	91.3	95.2	96.1	96.5	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 1000	20.3	92.3	96.1	97.1	98.1	98.4	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 900	20.3	92.6	96.5	97.4	98.4	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 800	20.3	92.9	96.8	97.7	98.7	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 700	20.3	92.9	96.8	97.7	98.7	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 600	20.3	93.2	97.1	98.1	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	20.3	93.2	97.1	98.1	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	20.3	93.2	97.1	98.1	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	20.3	93.2	97.1	98.1	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	20.3	93.2	97.1	98.1	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	20.3	93.2	97.1	98.1	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	20.3	93.2	97.1	98.1	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 110

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

22701

MIDWAY ISLAND

73-82

M4P

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

13

HOURS (L &amp; T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	12.3	41.6	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
≥ 20000	12.9	46.8	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 18000	12.9	47.8	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 16000	13.2	48.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
≥ 14000	13.2	48.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
≥ 12000	13.6	49.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 10000	13.9	51.3	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 9000	13.9	51.3	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
≥ 8000	14.5	54.8	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 7000	14.5	57.1	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 6000	14.5	57.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 5000	14.8	59.7	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 4500	14.8	59.7	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 4000	15.5	61.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 3500	16.5	68.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 3000	17.1	72.9	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 2500	18.4	81.3	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 2000	19.4	86.2	89.4	89.4	89.7	89.7	89.7	89.7	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1800	19.4	87.4	90.0	90.0	90.3	90.3	90.3	90.3	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1500	19.4	91.3	93.9	94.2	95.2	95.2	95.5	95.5	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1200	19.4	91.6	94.5	94.8	96.1	96.1	96.5	96.5	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000	19.4	92.6	96.1	96.5	97.7	97.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	19.4	92.9	96.5	96.8	98.1	98.1	99.0	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	19.4	92.9	96.5	96.8	98.1	98.1	99.0	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	19.4	92.9	96.5	96.8	98.1	98.1	99.0	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	19.4	92.9	96.5	96.8	98.1	98.1	99.0	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	19.4	92.9	96.5	96.8	98.1	98.1	99.0	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	19.4	92.9	96.5	96.8	98.1	98.1	99.0	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	19.4	92.9	96.5	96.8	98.1	98.1	99.0	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	19.4	92.9	96.5	96.8	98.1	98.1	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100	19.4	92.9	96.5	96.8	98.1	98.1	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 0	19.4	92.9	96.5	96.8	98.1	98.1	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

319

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

02701

HIDWAY ISLAND

73-82

MAR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

16

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
≥ 20000	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
IVM 18000	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
IVM 16000	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
IVM 14000	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IVM 12000	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
IVM 10000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IVM 9000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IVM 8000	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
IVM 7000	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
IVM 6000	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
IVM 5000	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
IVM 4500	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
IVM 4000	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
IVM 3500	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
IVM 3000	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
IVM 2500	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IVM 2000	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
IVM 1800	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IVM 1500	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
IVM 1200	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
IVM 1000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IVM 900	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IVM 800	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IVM 700	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IVM 600	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IVM 500	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IVM 400	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IVM 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVM 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVM 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVM 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

22701

MIDWAY ISLAND

73-82

MAR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

19

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	8.7	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
≥ 20000	9.7	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
WV 18000	10.0	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
WV 16000	10.0	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
WV 14000	10.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
WV 12000	10.3	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
WV 10000	10.7	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
WV 9000	10.7	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
WV 8000	10.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
WV 7000	10.7	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
WV 6000	10.7	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
WV 5000	11.3	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
WV 4500	11.6	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
WV 4000	11.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
WV 3500	12.9	63.9	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
WV 3000	14.2	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
WV 2500	15.2	78.7	79.4	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
WV 2000	15.5	81.9	83.2	83.6	83.6	83.6	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
WV 1800	15.5	82.3	83.6	83.9	83.9	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
WV 1500	15.8	89.4	90.7	91.0	91.0	91.0	91.9	91.9	91.9	91.9	92.3	92.3	92.3	92.3	92.3	92.3
WV 1200	16.1	91.0	92.6	93.2	93.6	93.6	94.8	94.8	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2
WV 1000	16.1	93.6	96.1	96.8	97.4	97.7	98.7	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0
WV 900	16.1	93.6	96.1	96.8	97.4	97.7	98.7	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0
WV 800	16.1	93.9	96.5	97.1	97.7	98.1	99.0	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4
WV 700	16.1	94.2	96.8	97.4	98.1	98.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7
WV 600	16.1	94.2	96.8	97.4	98.1	98.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7
WV 500	16.1	94.2	96.8	97.4	98.1	98.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7
WV 400	16.1	94.2	96.8	97.4	98.1	98.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7
WV 300	16.1	94.2	96.8	97.4	98.1	98.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7
WV 200	16.1	94.2	96.8	97.4	98.1	98.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7
WV 100	16.1	94.2	96.8	97.4	98.1	98.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7
WV 0	16.1	94.2	96.8	97.4	98.1	98.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS

310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

27701

MIDWAY ISLAND

73-77,81

MAP

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

22

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼
NO CEILING	4.3	37.6	37.6	37.6	38.2	38.2	38.2	38.2	39.2	38.2	39.2	38.2	39.2	38.2	38.2
≥ 20000	4.3	41.9	41.9	41.9	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
IN 18000	4.3	42.5	42.5	42.5	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
IN 16000	4.3	43.0	43.0	43.0	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
IN 14000	4.3	43.0	43.0	43.0	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
IN 12000	4.3	43.6	43.6	43.6	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
IN 10000	4.3	44.1	44.1	44.1	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
IN 9000	4.3	44.1	44.1	44.1	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
IN 8000	4.3	45.2	45.2	45.2	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IN 7000	4.3	47.3	47.3	47.3	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
IN 6000	4.3	49.5	49.5	49.5	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IN 5000	4.3	51.1	51.1	51.1	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IN 4500	4.3	52.2	52.2	52.2	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
IN 4000	5.4	54.8	54.8	54.8	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
IN 3500	5.4	58.6	58.6	58.6	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
IN 3000	5.4	67.7	67.7	68.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
IN 2500	6.5	77.4	78.0	78.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
IN 2000	6.5	83.3	85.5	86.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IN 1800	6.5	83.3	85.5	86.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IN 1500	7.5	91.4	94.1	95.7	96.8	96.8	96.8	96.8	96.8	97.3	97.3	97.3	97.3	97.3	97.3
IN 1200	7.5	91.9	94.6	96.2	97.3	97.3	97.3	97.3	97.3	97.9	97.9	97.9	97.9	97.9	97.9
IN 1000	7.5	92.5	95.7	97.3	98.4	98.4	98.4	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9
IN 900	7.5	93.0	96.2	97.9	98.9	98.9	98.9	98.9	98.9	99.5	99.5	99.5	99.5	99.5	99.5
IN 800	7.5	93.6	96.8	98.4	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
IN 700	7.5	93.6	96.8	98.4	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
IN 600	7.5	93.6	96.8	98.4	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
IN 500	7.5	93.6	96.8	98.4	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
IN 400	7.5	93.6	96.8	98.4	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
IN 300	7.5	93.6	96.8	98.4	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
IN 200	7.5	93.6	96.8	98.4	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
IN 100	7.5	93.6	96.8	98.4	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
IN 0	7.5	93.6	96.8	98.4	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 196

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

22701  
STATIONMIDWAY ISLAND  
STATION NAME73-82  
YEARSMAP  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)ALL  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	¾	≥ 3/16	≥ ¼
NO CEILING	5.1	39.1	39.3	39.3	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
≥ 20000	8.7	43.1	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.5
≥ 18000	6.9	43.9	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.3
≥ 16000	6.1	44.5	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.9
≥ 14000	7.3	44.7	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.1
≥ 12000	9.5	45.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.9
≥ 10000	9.7	46.7	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.1
≥ 9000	9.8	47.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.4
≥ 8000	10.0	49.1	49.4	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.6
≥ 7000	10.3	50.3	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.3
≥ 6000	10.4	52.1	52.4	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 5000	10.8	53.7	54.1	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.4
≥ 4500	10.9	55.0	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.6
≥ 4000	11.1	57.2	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.9
≥ 3500	12.0	63.3	64.0	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.3
≥ 3000	13.0	70.2	71.5	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 2500	13.6	78.5	80.2	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	81.0
≥ 2000	14.5	84.8	87.1	87.6	87.9	87.9	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.3
≥ 1800	14.5	85.3	87.5	88.0	88.3	88.3	88.5	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1500	14.5	90.2	93.2	93.8	94.3	94.3	94.6	94.8	94.8	94.8	94.9	94.9	94.9	94.9	94.9	95.0
≥ 1200	14.9	91.1	94.1	94.9	95.4	95.4	95.8	95.9	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.2
≥ 1000	14.9	92.5	96.1	96.9	97.6	97.7	98.3	98.4	98.4	98.7	98.7	98.7	98.7	98.7	98.8	98.8
≥ 900	14.9	92.8	96.3	97.1	97.8	98.0	98.5	98.6	98.6	98.9	99.0	99.0	99.0	99.0	99.0	99.1
≥ 800	14.9	93.0	96.6	97.4	98.1	98.2	98.8	98.9	98.9	99.2	99.3	99.3	99.3	99.3	99.3	99.4
≥ 700	14.9	93.1	96.8	97.6	98.3	98.5	99.0	99.1	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600	14.9	93.2	96.9	97.7	98.5	98.6	99.1	99.3	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.8
≥ 500	14.9	93.3	96.9	97.8	98.6	98.7	99.3	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 400	14.9	93.3	96.9	97.8	98.6	98.7	99.3	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 300	14.9	93.3	96.9	97.8	98.6	98.7	99.3	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 200	14.9	93.3	96.9	97.8	98.6	98.7	99.3	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 100	14.9	93.3	96.9	97.8	98.6	98.7	99.3	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 0	14.9	93.3	96.9	97.8	98.6	98.7	99.3	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.9

TOTAL NUMBER OF OBSERVATIONS 2213

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
22701

STATION NAME  
MIDWAY ISLAND

YEARS  
73-82

APP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	8.3	44.3	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 20000	8.3	47.7	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
IN 18000	8.3	47.7	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
IN 16000	8.3	47.7	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
IN 14000	8.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
IN 12000	9.3	48.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
IN 10000	9.3	49.0	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
IN 9000	9.3	49.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IN 8000	9.3	51.0	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
IN 7000	9.3	51.3	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IN 6000	9.3	52.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
IN 5000	9.3	53.3	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
IN 4500	9.3	55.3	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
IN 4000	9.3	57.3	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
IN 3500	10.3	64.0	64.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IN 3000	11.3	69.0	69.3	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
IN 2500	11.3	81.7	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
IN 2000	11.3	90.0	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IN 1800	11.3	90.3	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
IN 1500	12.0	94.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
IN 1200	12.0	94.3	95.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IN 1000	12.0	96.3	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IN 900	12.0	96.3	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IN 800	12.0	96.3	97.3	98.7	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IN 700	12.0	96.3	97.3	98.7	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IN 600	12.0	96.3	97.3	98.7	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IN 500	12.0	96.3	97.3	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 400	12.0	96.3	97.3	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 300	12.0	96.3	97.3	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 200	12.0	96.3	97.3	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 100	12.0	96.3	97.3	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 0	12.0	96.3	97.3	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

MIDWAY ISLAND

STATION NAME

73-77, 81-92

YEARS

APC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)24  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	7.7	42.3	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 20000	7.7	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥ 18000	7.7	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 16000	7.7	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 14000	7.7	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 12000	7.7	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
≥ 10000	7.7	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
≥ 9000	7.7	45.9	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
≥ 8000	7.7	45.9	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
≥ 7000	7.7	45.9	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
≥ 6000	7.7	47.5	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
≥ 5000	7.7	51.4	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 4500	7.7	57.5	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 4000	6.3	63.5	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 3500	9.0	68.5	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 3000	9.4	73.5	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 2500	9.7	87.3	87.9	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 2000	9.9	92.3	92.8	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 1800	9.9	92.3	92.8	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 1500	9.7	95.6	95.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1200	9.9	95.6	95.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000	10.5	97.8	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 900	10.5	97.8	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 800	10.5	97.8	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 700	10.5	97.8	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 600	10.5	97.8	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 500	10.5	97.8	98.3	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	10.5	97.8	98.3	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	10.5	97.8	98.3	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	10.5	97.8	98.3	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	10.5	97.8	98.3	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	10.5	97.8	98.3	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

161

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

22701

MIDDLE ISLAND

73-82

CPR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.V.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	2.7	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
IV 20000	10.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
IV 18000	10.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
IV 16000	10.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
IV 14000	10.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
IV 12000	10.0	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
IV 10000	10.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
IV 9000	10.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
IV 8000	10.7	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
IV 7000	11.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 6000	11.3	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
IV 5000	11.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 4500	12.0	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
IV 4000	12.3	50.3	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 3500	14.0	56.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
IV 3000	15.7	66.7	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
IV 2500	15.7	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
IV 2000	15.7	87.7	88.0	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
IV 1800	18.7	88.7	89.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 1500	19.7	93.7	94.0	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 1200	19.7	95.0	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 1000	19.7	97.0	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 900	19.7	97.0	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 800	19.7	97.0	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 700	19.7	97.0	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 600	19.7	97.0	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 500	19.7	97.7	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 400	19.7	97.7	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 300	19.7	97.7	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 200	19.7	97.7	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 100	19.7	97.7	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 0	19.7	97.7	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION NAME: ASHEVILLE, NC STATION NAME: ASHEVILLE, NC YEARS: 1950-1959 MONTH: APR  
 PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) HOURS: 10

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.7	37.0	37.3	37.3	37.7	37.3	37.3	37.3	37.7	37.3	37.3	37.3	37.3	37.3	37.3	37.0
IV 20000	12.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
IV 18000	12.7	41.3	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
IV 16000	12.7	41.3	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
IV 14000	12.7	41.7	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
IV 12000	12.7	42.3	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
IV 10000	12.7	43.3	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
IV 9000	12.7	43.7	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
IV 8000	12.7	45.3	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 7000	13.3	46.7	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 6000	14.7	48.0	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
IV 5000	14.7	50.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
IV 4500	15.7	53.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
IV 4000	17.7	58.3	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 3500	18.3	63.7	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
IV 3000	19.7	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 2500	22.0	83.7	84.3	84.3	84.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
IV 2000	23.7	90.0	90.7	91.0	91.0	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
IV 1800	23.7	90.7	91.3	91.7	91.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV 1500	24.3	94.3	95.0	95.7	95.7	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 1200	24.3	95.0	96.3	97.0	97.0	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 1000	24.7	96.7	98.0	99.0	99.0	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 900	24.7	97.0	98.3	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	24.7	97.0	98.3	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	24.7	97.0	98.3	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	24.7	97.0	98.3	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	24.7	97.0	98.3	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	24.7	97.0	98.3	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	24.7	97.0	98.3	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	24.7	97.0	98.3	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	24.7	97.0	98.3	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	24.7	97.0	98.3	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 100

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
17701

STATION NAME  
ATONAY ISLAND

YEARS  
73-

YEARS

APR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
≥ 20000	14.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 18000	14.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 16000	14.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 14000	14.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 12000	14.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 10000	14.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 9000	14.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 8000	14.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 7000	14.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 6000	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 5000	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 4500	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 4000	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 3500	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 3000	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 2500	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 2000	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 1800	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 1500	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 1200	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 1000	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 900	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 800	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 700	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 600	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 500	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 400	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 300	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 200	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 100	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 0	17.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3

TOTAL NUMBER OF OBSERVATIONS

300

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
12701STATION NAME  
MIDWAY ISLANDYEARS  
73-72MONTH  
APRPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)16  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
≥ 20000	13.7	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥ 18000	14.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 16000	14.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 14000	14.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 12000	14.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 10000	14.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 9000	14.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 8000	14.7	50.3	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 7000	15.0	51.0	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 6000	15.3	52.7	53.7	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 5000	15.3	55.0	55.7	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 4500	15.7	56.0	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 4000	16.0	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 3500	18.0	66.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 3000	20.3	73.3	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 2500	21.7	85.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 2000	23.0	91.7	91.7	91.7	91.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1800	23.7	91.7	92.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1500	24.3	95.7	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1200	24.3	95.7	96.7	97.0	97.0	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1000	24.3	97.0	98.0	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 900	24.3	97.3	98.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800	24.3	97.3	98.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700	24.3	97.3	98.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600	24.3	97.3	98.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500	24.3	97.3	98.3	98.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	24.3	97.3	98.3	98.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	24.3	97.3	98.3	98.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	24.3	97.3	98.3	98.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	24.3	97.3	98.3	98.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	24.3	97.3	93.3	98.7	98.7	99.3	100.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

300

DIRNAVOCEANMET

SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
07701STATION NAME  
MIDWAY ISLANDYEAR  
73-02

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)MONTH  
19  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	10.0	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
≥ 20000	12.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 18000	12.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 16000	12.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 14000	12.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 12000	12.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
IV 10000	12.3	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
IV 9000	12.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
IV 8000	12.3	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 7000	12.3	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 6000	12.3	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 5000	12.3	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
IV 4500	13.0	54.7	54.7	54.7	54.7	54.7	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
IV 4000	14.3	56.0	56.0	56.0	56.0	56.0	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 3500	16.7	65.3	65.3	65.3	65.3	65.3	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 3000	17.3	70.0	70.0	70.0	70.0	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
IV 2500	19.0	81.7	81.7	81.7	81.7	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
IV 2000	22.0	90.7	90.7	90.7	90.7	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IV 1800	22.3	92.0	92.0	92.0	92.0	92.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
IV 1500	22.7	95.7	95.7	95.7	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IV 1200	22.7	95.7	96.0	96.0	96.0	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 1000	22.7	97.0	98.0	98.0	98.0	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 900	22.7	97.3	98.0	98.0	98.0	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 800	22.7	97.7	98.3	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 700	22.7	97.7	98.3	98.3	98.3	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 600	22.7	97.7	98.3	98.3	98.3	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 500	22.7	98.0	98.7	98.7	98.7	98.7	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 400	22.7	98.3	99.0	99.0	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	22.7	98.3	99.0	99.0	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	22.7	98.3	99.0	99.0	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	22.7	98.3	99.0	99.0	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	22.7	98.3	99.0	99.0	99.0	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 100

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

22721  
STATIONSTATION NAME  
STONEY ISLAND73-77,81-82  
YEARSAPR  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)22  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	6.7	45.9	46.8	46.4	46.8	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
≥ 20000	7.2	48.1	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 18000	7.2	48.1	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 16000	7.2	48.1	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 14000	7.7	48.6	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥ 12000	7.7	48.6	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥ 10000	7.7	48.6	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥ 9000	7.7	48.6	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥ 8000	7.7	49.7	50.3	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
≥ 7000	7.7	49.7	50.3	50.3	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
≥ 6000	7.7	50.8	51.4	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 5000	7.7	51.4	51.9	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥ 4500	8.2	53.6	54.1	54.7	54.7	54.7	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 4000	8.2	55.3	56.4	56.9	56.9	56.9	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥ 3500	8.2	60.2	61.3	61.9	61.9	61.9	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 3000	9.4	65.2	66.3	66.9	66.9	66.9	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 2500	9.9	79.6	81.2	81.8	81.8	81.8	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 2000	10.5	85.6	87.9	88.4	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1800	10.5	85.6	87.9	88.4	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1500	11.6	91.7	93.9	94.5	94.5	94.5	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1200	11.6	92.8	95.0	95.6	95.6	95.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000	11.6	94.5	96.7	97.2	97.8	97.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 900	11.6	94.5	96.7	97.2	97.8	97.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 800	11.6	95.6	97.8	98.3	98.9	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700	11.6	95.6	97.8	98.3	98.9	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	11.6	95.6	97.8	98.3	98.9	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500	11.6	95.6	97.8	98.3	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	11.6	95.6	97.8	98.3	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	11.6	95.6	97.8	98.3	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	11.6	95.6	97.8	98.3	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	11.6	95.6	97.8	98.3	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	11.6	95.6	97.8	98.3	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

181

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

22701  
STATIONMIDWAY ISLAND  
STATION NAME73-82  
YEARSAPR  
MONTHALL  
HOURS (L E T)PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	9.4	19.4	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
≥ 20000	11.1	45.5	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 18000	11.1	45.7	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
IV 16000	11.1	45.7	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
IV 14000	11.2	45.9	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
IV 12000	11.4	46.3	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
IV 10000	11.5	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 9000	11.6	47.3	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
IV 8000	11.7	48.6	48.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
IV 7000	12.1	49.5	49.8	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
IV 6000	12.3	51.3	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
IV 5000	12.5	52.7	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
IV 4500	12.6	55.1	55.4	55.5	55.5	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
IV 4000	13.6	56.7	59.0	59.1	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
IV 3500	14.8	64.7	65.1	65.2	65.2	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 3000	16.1	71.0	71.4	71.5	71.5	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 2500	17.4	82.6	83.1	83.2	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
IV 2000	18.2	89.9	90.5	90.8	90.8	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IV 1800	19.0	90.6	91.2	91.5	91.5	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
IV 1600	19.5	90.5	95.2	95.6	95.7	95.8	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IV 1400	19.6	95.0	95.8	96.3	96.3	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 1200	19.7	96.8	97.7	98.2	98.3	98.5	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8
IV 1000	19.7	96.9	97.8	98.3	98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 900	19.7	97.0	97.9	98.5	98.8	98.9	99.1	99.1	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
IV 800	19.7	97.0	98.0	98.6	98.8	99.0	99.2	99.2	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4
IV 700	19.7	97.1	98.1	98.8	99.1	99.3	99.6	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9
IV 600	19.7	97.2	98.2	98.8	99.1	99.3	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 500	19.7	97.2	98.2	98.8	99.1	99.3	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 400	19.7	97.2	98.2	98.8	99.1	99.3	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 300	19.7	97.2	98.2	98.8	99.1	99.3	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 200	19.7	97.2	98.2	98.8	99.1	99.3	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 100	19.7	97.2	98.2	98.8	99.1	99.3	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 0	19.7	97.2	98.2	98.8	99.1	99.3	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS

2162

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

12701

MIDWAY ISLAND

73-82

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

01

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING	10.0	56.6	55.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥ 20000	11.7	60.8	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 18000	11.7	60.8	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 16000	11.7	60.8	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 14000	11.7	61.2	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 12000	11.7	61.5	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 10000	12.0	62.8	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 9000	12.3	63.4	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 8000	12.3	64.4	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 7000	12.3	65.1	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥ 6000	12.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 5000	12.3	66.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 4500	12.3	67.3	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 4000	12.3	71.2	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 3500	12.3	72.5	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥ 3000	12.3	75.7	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 2500	14.6	79.6	80.9	80.9	80.9	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 2000	14.6	84.1	85.8	85.8	85.8	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 1800	14.6	85.4	87.1	87.1	87.1	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 1500	15.5	88.4	90.6	90.6	90.6	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1200	15.5	90.6	92.9	93.5	93.5	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1000	15.5	92.2	94.8	95.8	96.4	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 900	15.5	92.6	95.2	96.1	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 800	15.5	94.2	96.8	97.7	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	15.5	94.2	97.1	98.1	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 600	15.5	94.2	97.1	98.1	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 500	15.5	94.5	97.4	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	15.5	94.5	97.4	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	15.5	94.5	97.4	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	15.5	94.5	97.4	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	15.5	94.5	97.4	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	15.5	94.5	97.4	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

309

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
22701STATION NAME  
HIDWAY ISLANDYEARS  
73-77,81MONTH  
MAYPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)HOURS (L S T)  
04

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	¾	≥ 5/16	≥ ¼
NO CEILING	50.5	50.5	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
≥ 20000	11.7	56.5	56.5	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
WV 18000	11.7	56.5	56.5	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
WV 16000	11.7	57.0	57.0	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
WV 14000	11.7	57.0	57.0	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
WV 12000	11.7	57.0	57.0	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
WV 10000	11.7	57.0	57.0	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
WV 9000	12.4	58.1	58.1	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
WV 8000	12.4	60.8	60.8	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
WV 7000	12.4	61.3	61.3	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
WV 6000	12.4	62.9	62.9	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
WV 5000	13.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
WV 4500	13.4	64.5	64.5	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
WV 4000	13.4	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
WV 3500	14.5	68.3	68.3	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
WV 3000	14.5	73.1	73.1	73.7	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
WV 2500	15.6	78.5	78.5	79.0	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
WV 2000	16.1	86.0	86.0	86.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
WV 1800	15.1	86.7	86.7	86.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
WV 1500	16.1	92.5	93.0	94.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
WV 1200	16.1	94.1	94.6	95.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
WV 1000	16.1	95.7	96.2	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
WV 900	16.1	95.7	96.2	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
WV 800	16.1	96.2	97.3	98.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
WV 700	16.1	96.2	97.3	98.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
WV 600	16.1	96.2	97.3	98.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
WV 500	16.1	96.2	97.3	98.4	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 400	16.1	96.2	97.3	98.4	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 300	16.1	96.2	97.3	98.4	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 200	16.1	96.2	97.3	98.4	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 100	16.1	96.2	97.3	98.4	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 0	16.1	96.2	97.3	98.4	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

196

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

22701  
STATIONMIDWAY ISLAND  
STATION NAME73-82  
YEARSMAY  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)07  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	10.7	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
≥ 20000	11.3	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IN 18000	11.3	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IN 16000	11.3	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
IN 14000	11.4	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
IN 12000	11.9	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
IN 10000	12.4	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
IN 9000	12.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IN 8000	12.7	47.7	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
IN 7000	13.2	49.4	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IN 6000	13.6	50.3	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IN 5000	14.2	52.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
IN 4500	14.2	54.5	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
IN 4000	15.5	57.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
IN 3500	17.4	64.5	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
IN 3000	19.7	71.6	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
IN 2500	20.0	79.0	79.4	79.4	79.4	79.4	79.4	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IN 2000	20.7	86.5	86.8	86.8	86.8	86.8	86.8	87.1	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
IN 1800	21.0	87.1	88.1	88.1	88.1	88.1	88.1	88.4	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
IN 1500	21.3	91.0	92.3	92.3	92.6	92.6	92.9	93.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IN 1200	21.3	91.3	93.9	94.2	94.5	94.5	94.8	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IN 1000	21.3	92.6	94.8	95.2	95.8	95.8	96.1	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IN 900	21.3	92.9	95.2	95.9	96.1	96.1	96.5	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IN 800	21.3	93.9	96.1	96.5	97.1	97.1	97.4	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IN 700	21.3	94.5	96.8	97.1	98.1	98.1	98.4	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IN 600	21.3	94.5	96.8	97.1	98.1	98.1	98.4	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IN 500	21.3	94.5	97.1	97.4	98.4	98.4	98.7	99.4	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0
IN 400	21.3	94.5	97.1	97.4	98.4	98.4	98.7	99.4	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0
IN 300	21.3	94.5	97.1	97.4	98.4	98.4	98.7	99.4	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0
IN 200	21.3	94.5	97.1	97.4	98.4	98.4	98.7	99.4	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0
IN 100	21.3	94.5	97.1	97.4	98.4	98.4	98.7	99.4	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0
IN 0	21.3	94.5	97.1	97.4	98.4	98.4	98.7	99.4	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

02701

MIDWAY ISLAND

73-87

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)1G  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
≥ 20000	13.2	48.4	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
IN 18000	13.6	49.4	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IN 16000	13.4	49.4	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IN 14000	13.9	50.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
IN 12000	14.3	51.6	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
IN 10000	15.4	54.2	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
IN 9000	16.1	54.5	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
IN 8000	16.4	56.1	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
IN 7000	17.1	57.1	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IN 6000	17.1	58.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IN 5000	18.1	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
IN 4500	18.4	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
IN 4000	18.7	65.8	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IN 3500	20.7	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
IN 3000	23.2	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
IN 2500	24.3	82.5	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
IN 2000	26.1	88.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IN 1800	26.5	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IN 1500	27.1	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IN 1200	27.1	94.5	95.2	95.2	95.5	95.5	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
IN 1000	27.1	96.1	96.8	96.8	97.1	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IN 900	27.1	96.5	97.1	97.1	97.4	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IN 800	27.1	98.1	98.7	98.7	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IN 700	27.1	98.4	99.0	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 600	27.1	98.4	99.0	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 500	27.1	98.4	99.0	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 400	27.1	98.4	99.0	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 300	27.1	98.4	99.0	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 200	27.1	98.4	99.0	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 100	27.1	98.4	99.0	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 0	27.1	98.4	99.0	99.0	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

312

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

22701  
STATIONMIDWAY ISLAND  
STATION NAME73-P  
YEARSMAY  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)13  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	¾	≥ 5/16	≥ 0
NO CEILING	15.1	48.1	47.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
≥ 20000	19.7	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
IV 18000	19.4	57.1	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 16000	19.4	57.1	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 14000	19.7	57.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
IV 12000	20.7	58.7	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 10000	21.3	61.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
IV 9000	21.6	61.6	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 8000	22.3	64.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
IV 7000	22.3	64.5	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
IV 6000	22.3	65.2	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
IV 5000	22.3	66.1	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
IV 4500	22.6	68.4	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
IV 4000	22.7	71.3	71.6	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
IV 3500	23.9	73.2	73.6	73.9	73.9	73.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
IV 3000	25.2	76.8	77.1	77.7	77.7	77.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IV 2500	26.5	81.7	81.6	82.3	82.3	82.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
IV 2000	28.1	88.1	88.7	89.7	89.7	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV 1800	28.7	88.7	89.4	90.3	90.3	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
IV 1500	29.7	92.6	93.6	94.8	95.2	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 1200	30.0	94.5	95.8	97.1	97.4	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 1000	30.0	94.8	96.8	98.1	98.4	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 900	30.0	95.2	97.1	98.4	98.7	98.7	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 800	30.3	95.5	97.4	98.7	99.0	99.0	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 700	30.3	95.8	97.7	99.0	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	30.3	95.8	97.7	99.0	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	30.3	95.8	97.7	99.0	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	30.3	95.8	97.7	99.0	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	30.3	95.8	97.7	99.0	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	30.3	95.8	97.7	99.0	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	30.3	95.8	97.7	99.0	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	30.3	95.8	97.7	99.0	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

310

DIRNAVOCEANMET

SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

03721  
STATIONMIDWAY ISLAND  
STATION NAME73-82  
YEARSMAY  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)16  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	16.1	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
IV 20000	17.7	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
IV 18000	18.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
IV 16000	18.7	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
IV 14000	19.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
IV 12000	19.4	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
IV 10000	20.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
IV 9000	20.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
IV 8000	21.1	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
IV 7000	21.7	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IV 6000	21.7	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
IV 5000	21.3	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 4500	22.6	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
IV 4000	23.2	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
IV 3500	24.2	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
IV 3000	27.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 2500	28.7	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
IV 2000	30.0	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
IV 1800	30.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 1500	31.3	92.6	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
IV 1200	31.6	95.2	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 1000	31.7	97.1	98.1	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7
IV 900	31.6	97.1	98.1	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7
IV 800	31.6	97.1	98.1	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7
IV 700	31.9	97.1	98.1	98.7	98.7	98.7	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 600	31.9	97.1	98.1	98.7	98.7	98.7	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 500	31.9	97.1	98.1	98.7	98.7	98.7	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 400	31.9	97.1	98.1	98.7	98.7	98.7	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 300	31.9	97.1	98.1	98.7	98.7	98.7	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 200	31.9	97.1	98.1	98.7	98.7	98.7	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 100	31.9	97.1	98.1	98.7	98.7	98.7	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 0	31.9	97.1	98.1	98.7	98.7	98.7	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 312

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

MIDWAY ISLAND

STATION NAME

73-02

YEARS

MONTH

19

HOURS (L & T)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	17.2	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 20000	15.8	48.4	48.4	43.4	43.4	48.4	48.4	48.4	43.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 18000	16.1	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 16000	16.5	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 14000	16.8	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 12000	16.8	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 10000	17.7	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 9000	17.7	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 8000	18.4	54.2	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 7000	19.0	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 6000	19.4	57.1	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 5000	21.0	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 4500	21.6	61.0	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 4000	22.3	65.5	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 3500	23.6	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 3000	24.2	74.5	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 2500	26.7	81.0	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 2000	27.7	87.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1800	28.4	88.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 1500	29.0	93.2	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 1200	29.4	94.5	96.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1000	29.4	96.1	98.4	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 900	29.4	96.5	98.7	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	29.4	96.8	99.0	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	29.4	96.8	99.0	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	29.4	96.8	99.0	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	29.4	96.8	99.0	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	29.4	96.8	99.0	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	29.4	96.8	99.0	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	29.4	96.8	99.0	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	29.4	96.8	99.0	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	29.4	96.8	99.0	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 312

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
22701STATION NAME  
MIDWAY ISLANDYEARS  
73-77, 81MONTH  
MAYPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)HOURS (LST)  
22

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	13.4	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥ 20000	13.4	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IN V 18000	14.0	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
IN V 16000	14.0	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
IN V 14000	14.0	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IN V 12000	14.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
IN V 10000	14.0	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
IN V 9000	14.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
IN V 8000	14.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
IN V 7000	14.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
IN V 6000	14.0	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IN V 5000	14.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IN V 4500	14.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IN V 4000	14.0	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
IN V 3500	14.0	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
IN V 3000	14.0	71.5	71.5	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
IN V 2500	14.0	76.3	76.3	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
IN V 2000	14.0	87.1	87.1	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IN V 1800	14.0	87.1	87.1	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IN V 1500	14.0	91.4	91.4	92.5	92.5	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
IN V 1200	14.0	93.6	93.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
IN V 1000	14.0	95.2	95.2	96.8	96.8	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IN V 900	14.0	95.2	95.2	97.3	97.3	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IN V 800	14.0	95.2	95.2	97.9	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IN V 700	14.0	95.2	95.2	97.9	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IN V 600	14.0	95.2	95.2	97.9	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IN V 500	14.0	95.7	95.7	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN V 400	14.0	95.7	95.7	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN V 300	14.0	95.7	95.7	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN V 200	14.0	95.7	95.7	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN V 100	14.0	95.7	95.7	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN V 0	14.0	95.7	95.7	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS 126

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
02701STATION NAME  
HICKORY ISLANDYEARS  
72-80MONTH  
MAYPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)ALL  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 3	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	12.7	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
≥ 20000	14.4	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
IV 18000	14.4	53.5	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
IV 16000	14.4	53.5	53.6	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
IV 14000	17.7	54.2	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 12000	17.7	55.3	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
IV 10000	17.7	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
IV 9000	17.7	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 8000	17.7	58.7	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
IV 7000	17.7	59.6	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
IV 6000	17.7	60.8	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
IV 5000	17.7	62.1	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 4500	17.7	63.9	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 4000	17.7	66.9	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 3500	19.4	70.4	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 3000	21.2	75.1	75.4	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
IV 2500	22.3	80.3	80.9	81.0	81.0	81.0	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
IV 2000	23.3	87.1	87.7	87.9	88.0	88.0	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
IV 1800	23.7	87.7	88.4	88.7	88.8	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
IV 1500	24.7	91.8	92.9	93.3	93.6	93.6	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 1200	24.4	93.6	94.9	95.4	95.7	95.7	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IV 1000	24.5	94.3	96.5	97.2	97.6	97.7	97.9	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 900	24.5	95.2	96.8	97.5	97.9	97.9	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 800	24.5	95.2	97.6	98.3	98.7	98.8	99.1	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 700	24.5	96.1	97.8	98.5	99.0	99.1	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 600	24.5	96.1	97.4	98.6	99.0	99.1	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 500	24.5	96.2	97.9	98.7	99.2	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 400	24.5	96.2	97.9	98.7	99.2	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 300	24.5	96.2	97.9	98.7	99.2	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 200	24.5	96.2	97.9	98.7	99.2	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 100	24.5	96.2	97.9	98.7	99.2	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 0	24.5	96.2	97.9	98.7	99.2	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS

2231

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION 1001 STATION NAME MIDWAY ISLAND YEARS 73-74 MONTH 01 HOURS (LST) 01

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	14.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 20000	14.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
IVM 18000	14.7	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
IVM 16000	14.7	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
IVM 14000	14.7	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
IVM 12000	14.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
IVM 10000	14.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IVM 9000	14.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
IVM 8000	14.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IVM 7000	14.7	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
IVM 6000	14.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
IVM 5000	14.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
IVM 4500	14.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
IVM 4000	14.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
IVM 3500	14.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IVM 3000	14.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
IVM 2500	14.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IVM 2000	14.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IVM 1800	14.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IVM 1500	14.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IVM 1200	14.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IVM 1000	14.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IVM 900	14.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IVM 800	14.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IVM 700	14.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IVM 600	14.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IVM 500	14.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IVM 400	14.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IVM 300	14.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IVM 200	14.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IVM 100	14.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IVM 0	14.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS 100

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
02701

STATION NAME  
MIDWAY ISLAND

YEARS  
73-77, 81

MONTH  
JUN

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	10.5	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 20000	17.2	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
IV 18000	17.2	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
IV 16000	17.2	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
IV 14000	17.2	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
IV 12000	17.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
IV 10000	17.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
IV 9000	17.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
IV 8000	17.2	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 7000	17.2	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
IV 6000	17.2	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
IV 5000	17.2	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
IV 4500	17.8	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
IV 4000	17.8	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
IV 3500	17.8	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
IV 3000	18.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
IV 2500	18.3	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
IV 2000	18.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 1800	18.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 1500	19.4	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 1200	19.4	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 1000	19.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 900	19.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 800	19.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 700	19.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 600	19.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 500	19.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 400	19.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 300	19.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 200	19.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 100	19.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 0	19.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7

TOTAL NUMBER OF OBSERVATIONS 180

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

22771

MIDWAY ISLAND

73-82

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

27

HOURS (L &amp; T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	14.7	52.5	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
≥ 20000	16.3	57.7	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥ 18000	15.7	58.2	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 16000	15.7	58.2	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 14000	15.7	58.2	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 12000	15.7	58.2	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 10000	17.1	60.5	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 9000	17.1	60.5	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 8000	17.7	62.5	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 7000	15.1	64.2	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥ 6000	16.7	66.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 5000	15.1	67.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 4500	17.1	69.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 4000	15.1	73.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 3500	15.1	75.9	77.3	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 3000	15.1	81.3	82.6	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 2500	21.1	85.3	86.6	86.6	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 2000	21.7	88.0	89.6	89.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1800	22.1	90.6	90.3	90.3	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 1500	23.7	92.6	94.3	94.3	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1200	23.7	95.0	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1000	23.7	95.0	97.3	97.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 900	23.6	95.3	97.3	97.3	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800	23.7	95.3	97.3	97.3	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	23.8	95.3	97.3	97.3	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600	23.8	95.7	97.7	97.7	98.7	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 500	23.8	95.7	97.7	97.7	99.0	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	23.8	95.7	97.7	97.7	99.0	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	23.8	95.7	98.0	98.0	99.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	23.8	95.7	98.0	98.0	99.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	23.8	95.7	98.0	98.0	99.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	23.8	95.7	98.0	98.0	99.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS

295

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
027 1STATION NAME  
MIDWAY ISLANDYEARS  
73-82MONTH  
JUNPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)10  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	51.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 20000	22.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 18000	23.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 16000	23.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥ 14000	23.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥ 12000	23.7	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 10000	24.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 9000	24.3	70.7	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 8000	24.7	72.7	72.7	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 7000	24.7	74.7	74.7	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 6000	25.0	76.0	76.0	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 5000	25.0	77.0	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4500	25.0	79.3	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4000	25.3	81.3	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 3500	26.0	85.3	85.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3000	26.0	89.3	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 2500	26.3	90.7	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2000	26.3	92.0	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1800	26.3	92.0	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1600	27.7	95.3	95.7	96.0	96.0	96.0	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1400	28.3	96.7	97.0	97.3	97.3	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1200	28.3	97.3	97.7	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	28.3	97.3	97.7	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900	28.3	97.3	97.7	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800	28.3	97.3	97.7	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	28.3	97.7	98.0	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600	28.3	97.7	98.0	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500	28.3	97.7	98.0	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400	28.3	97.7	98.0	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	28.3	97.7	98.0	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	28.3	97.7	98.0	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	28.3	97.7	98.0	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0	25.3	97.7	98.0	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
07701STATION NAME  
HYDWAY ISLANDYEARS  
73-92MONTH  
JUNPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)13  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	21.7	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 20000	25.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
IV 18000	25.3	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 16000	25.3	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 14000	25.3	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 12000	25.7	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
IV 10000	26.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
IV 9000	26.7	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 8000	27.3	76.7	76.7	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 7000	27.7	79.3	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 6000	27.7	80.0	80.0	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
IV 5000	27.7	82.0	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
IV 4500	27.7	82.7	82.7	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
IV 4000	28.0	83.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
IV 3500	28.3	87.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
IV 3000	28.7	89.7	89.7	90.3	90.3	90.3	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
IV 2500	28.7	90.0	90.0	90.7	90.7	90.7	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IV 2000	29.3	92.7	92.7	94.0	94.0	94.0	94.0	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 1800	29.7	93.3	94.0	94.7	94.7	94.7	94.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 1500	30.0	94.3	95.0	95.7	95.7	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IV 1200	30.3	95.7	96.3	97.0	97.0	97.0	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 1000	30.3	97.0	98.3	99.0	99.0	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 900	30.3	97.0	98.3	99.0	99.0	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 800	30.3	97.7	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 700	30.3	97.7	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 600	30.3	97.7	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 500	30.3	97.7	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 400	30.3	97.7	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 300	30.3	97.7	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 200	30.3	97.7	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 100	30.3	97.7	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 0	30.3	97.7	99.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 100

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
22701

STATION NAME  
MT DIXIE ISLAND

YEARS  
73-80

MONTH  
JUL

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	10.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 20000	22.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 18000	22.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 16000	22.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 14000	22.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 12000	23.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 10000	24.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 9000	24.0	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 8000	24.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 7000	24.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 6000	24.3	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 5000	25.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 4500	26.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 4000	26.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 3500	26.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 3000	27.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 2500	27.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 2000	28.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1800	28.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1500	28.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1200	29.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1000	29.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 900	29.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800	29.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	29.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600	29.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500	29.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400	29.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	29.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	29.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	29.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0	29.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

20701

MIDWAY ISLAND

73-92

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

19

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
≥ 20000	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 18000	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 16000	51.2	61.2	61.2	61.2	61.2	61.2	51.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 14000	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 12000	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 10000	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 9000	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 8000	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 7000	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 6000	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 5000	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 4500	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 4000	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 3500	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 3000	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 2500	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 2000	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 1800	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1500	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1200	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1000	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 900	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 800	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 700	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 600	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 500	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 400	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 300	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 200	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 100	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS 249

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

2701  
STATIONMILBURY ISLAND  
STATION NAME75-77,81  
YEARSJUN  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)22  
HOURS (L & Y)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	¾	≥ 5/16	≥ ¼
NO CEILING	14.4	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 20000	16.7	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
IV 18000	16.7	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
IV 16000	16.7	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
IV 14000	16.7	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
IV 12000	16.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
IV 10000	16.7	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 9000	16.7	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 8000	17.2	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
IV 7000	17.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
IV 6000	17.8	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
IV 5000	17.8	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
IV 4500	18.3	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
IV 4000	18.3	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
IV 3500	18.9	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
IV 3000	18.9	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 2500	18.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 2000	19.4	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
IV 1800	19.4	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
IV 1500	19.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 1200	19.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 1000	19.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 900	19.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 800	19.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 700	19.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 600	19.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 500	19.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 400	19.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 300	19.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 200	19.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 100	19.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 0	19.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8

TOTAL NUMBER OF OBSERVATIONS

180

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

22701

MIDWAY ISLAND

73-80

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	17.2	58.6	55.7	53.7	55.7	58.7	58.7	59.7	56.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 20000	19.8	65.9	66.0	65.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
18000	20.0	66.5	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
16000	20.0	66.5	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
14000	20.1	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
12000	20.3	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
10000	20.6	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
9000	20.5	70.1	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
8000	21.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
7000	21.5	73.8	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
6000	21.7	74.8	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
5000	21.7	76.1	76.3	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
4500	22.4	78.0	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
4000	22.6	80.5	80.7	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
3500	23.3	83.1	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
3000	23.3	86.8	87.1	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
2500	23.8	89.1	89.4	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
2000	24.2	91.8	92.4	92.5	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
1800	24.4	92.3	93.0	93.1	93.1	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
1500	25.1	95.2	96.7	96.2	96.3	96.3	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
1200	25.2	96.3	97.1	97.3	97.4	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
1000	25.2	97.1	98.7	98.2	98.7	98.7	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
900	25.2	97.2	98.1	98.3	98.8	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2
800	25.2	97.4	98.3	98.6	99.0	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
700	25.2	97.5	98.4	98.7	99.2	99.3	99.5	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
600	25.2	97.5	98.5	98.7	99.3	99.3	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
500	25.2	97.5	98.5	98.7	99.3	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
400	25.2	97.5	98.5	98.7	99.3	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
300	25.2	97.5	98.5	98.8	99.4	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
200	25.2	97.5	98.5	98.8	99.4	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
100	25.2	97.5	98.5	98.8	99.4	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
0	25.2	97.5	98.5	98.8	99.4	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2158

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

00701  
STATIONHOLWAY ISLAND  
STATION NAME73-32  
YEARSJUL  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)71  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	12.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 20000	12.9	79.7	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 18000	13.9	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 16000	13.9	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 14000	13.9	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 12000	13.9	81.3	81.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 10000	14.9	82.9	82.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 9000	14.9	83.6	83.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 8000	14.9	84.5	84.5	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 7000	14.9	85.2	85.2	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 6000	14.9	85.8	85.8	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 5000	14.9	86.5	86.5	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 4500	14.9	87.7	87.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 4000	14.9	88.1	88.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 3500	14.9	90.0	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 3000	14.9	91.6	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 2500	14.9	92.3	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 2000	14.9	95.2	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1800	14.9	95.3	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1500	14.9	97.1	98.1	98.4	98.7	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1200	14.9	97.7	98.7	99.0	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1000	14.9	97.7	98.7	99.0	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900	14.9	97.7	98.7	99.0	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	14.9	98.1	99.0	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	14.9	98.1	99.0	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	14.9	98.1	99.0	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	14.9	98.1	99.0	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	14.9	98.1	99.0	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	14.9	98.1	99.0	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	14.9	98.1	99.0	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	14.9	98.1	99.0	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	14.9	98.1	99.0	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
12701STATION NAME  
CROWLEY ISLAND

73-77, 81

YEARS

JUL

MONTH

24

HOURS IN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 20000	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IN 18000	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
IN 16000	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
IN 14000	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
IN 12000	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
IN 10000	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
IN 9000	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
IN 8000	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
IN 7000	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
IN 6000	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
IN 5000	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
IN 4300	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IN 4000	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IN 3300	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IN 3000	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IN 2500	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IN 2000	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IN 1800	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IN 1500	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN 1200	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN 1000	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN 900	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN 800	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN 700	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN 600	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN 500	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN 400	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN 300	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN 200	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN 100	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IN 0	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS

136

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
0741STATION NAME  
HICKORY ISLANDYEARS  
1951-52MONTH  
JULPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)HOURS  
07

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	½	¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	15.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 20000	16.1	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
IV 18000	16.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
IV 16000	16.8	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
IV 14000	17.1	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
IV 12000	17.7	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
IV 10000	18.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
IV 9000	18.7	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
IV 8000	19.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IV 7000	19.4	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 6000	19.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IV 5000	20.0	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
IV 4500	20.0	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
IV 4000	20.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
IV 3500	20.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
IV 3000	20.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
IV 2500	20.7	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
IV 2000	21.0	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
IV 1800	21.0	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 1500	21.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 1200	21.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 1000	21.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 900	21.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 800	21.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 700	21.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 600	21.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 500	21.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 400	21.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 300	21.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 200	21.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 100	21.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 0	21.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
07701STATION NAME  
MIDWAY ISLANDYEARS  
73-77MONTH  
JULPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)HOURS (L & T)  
10

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	77.1	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 20000	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
IV 18000	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
IV 16000	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
IV 14000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
IV 12000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
IV 10000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
IV 9000	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IV 8000	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
IV 7000	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
IV 6000	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
IV 5000	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
IV 4500	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
IV 4000	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
IV 3500	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
IV 3000	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
IV 2500	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
IV 2000	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
IV 1800	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 1500	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 1200	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 1000	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 900	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 800	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 700	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 600	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 500	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 400	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 300	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 200	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 100	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
02701STATION NAME  
HILARY ISLANDYEARS  
73-82MONTH  
JULPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)HOURS (LST)  
13

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	17.1	11.0	61.5	61.6	61.6	11.5	61.6	11.6	61.6	51.6	61.5	61.6	61.6	61.6	61.6	51.6
≥ 20000	17.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
18000	17.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
16000	17.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
14000	17.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
12000	17.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
10000	17.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
9000	17.1	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
8000	17.1	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
7000	17.1	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
6000	17.1	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
5000	17.1	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
4500	17.1	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
4000	17.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
3500	17.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
3000	17.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
2500	17.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
2000	17.1	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
1800	17.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
1500	17.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
1700	17.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
1000	17.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
900	17.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
800	17.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
700	17.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
600	17.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
500	17.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
400	17.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
300	17.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
200	17.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
100	17.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
0	17.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION NAME: NAVY ISLAND STATION NAME: NAVY ISLAND YEARS: 1954 MONTH: 10  
 STATION: 1000 STATION NAME: NAVY ISLAND YEARS: 1954 MONTH: 10  
 HOURS: 11 57

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	10.0	53.0	2.6	63.6	67.4	73.4	67.4	45.0	73.4	63.6	43.0	13.6	67.4	53.0	43.0
IV 20000	10.0	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 18000	10.0	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
IV 16000	10.0	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
IV 14000	10.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
IV 12000	10.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 10000	10.0	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
IV 9000	10.0	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 8000	10.0	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 7000	10.0	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
IV 6000	10.0	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
IV 5000	10.0	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
IV 4500	10.0	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
IV 4000	10.0	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
IV 3500	10.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
IV 3000	10.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 2500	10.0	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
IV 2000	10.0	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
IV 1800	10.0	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 1500	10.0	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 1200	10.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
IV 1000	10.0	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 900	10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 800	10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 700	10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 600	10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 500	10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 400	10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 300	10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 200	10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 100	10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 0	10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0

TOTAL NUMBER OF OBSERVATIONS: 11

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
12701STATION NAME  
HYDRA ISLANDYEARS  
73-72MONTH  
JULPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)HOURS (L.S.T.)  
19

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	14.2	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 20000	15.7	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 18000	20.0	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 16000	20.0	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 14000	20.7	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 12000	21.6	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 10000	21.7	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 9000	21.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 8000	22.3	82.9	82.9	82.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 7000	22.3	83.9	83.9	83.9	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 6000	22.3	84.7	84.8	84.8	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 5000	22.3	85.5	85.5	85.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 4500	22.6	86.1	86.1	86.1	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 4000	22.6	87.4	87.4	87.4	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 3500	23.2	90.3	90.3	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 3000	23.6	91.6	91.6	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 2500	23.6	92.6	92.6	92.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 2000	24.2	95.2	95.2	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1800	24.2	95.5	95.5	95.5	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1500	24.2	97.1	97.4	97.4	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200	24.2	97.4	97.7	98.1	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	24.2	97.7	98.1	98.4	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	24.2	97.7	98.1	98.4	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	24.2	97.7	98.1	98.4	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	24.2	97.7	98.1	98.4	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	24.2	98.1	98.4	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	24.2	98.1	98.4	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	24.2	98.1	98.4	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	24.2	98.1	98.4	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	24.2	98.1	98.4	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	24.2	98.1	98.4	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	24.2	98.1	98.4	98.7	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

22

HOURS (L &amp; T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	8.5	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 20000	7.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 18000	8.1	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
IV 16000	8.6	85.0	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
IV 14000	8.6	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
IV 12000	8.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
IV 10000	8.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
IV 9000	9.1	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 8000	9.1	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
IV 7000	9.7	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
IV 6000	9.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IV 5000	9.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IV 4500	10.2	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 4000	10.2	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 3500	10.2	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 3000	10.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 2500	10.2	94.6	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
IV 2000	10.2	96.2	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 1800	10.2	96.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 1500	10.2	97.3	98.9	98.9	98.9	98.9	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 1200	10.2	97.3	98.9	98.9	98.9	98.9	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 1000	10.2	97.9	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	10.2	97.9	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	10.2	97.9	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	10.2	97.9	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	10.2	97.9	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	10.2	97.9	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	10.2	97.9	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	10.2	97.9	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	10.2	97.9	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	10.2	97.9	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	10.2	97.9	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 146

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
20001

STATION NAME  
MIDWAY ISLAND

73-00

YEARS

JUL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L & Y)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	14.2	44.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 20000	16.2	75.9	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
IV 18000	17.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
IV 16000	16.7	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
IV 14000	16.5	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
IV 12000	17.3	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
IV 10000	17.5	80.3	80.3	80.4	81.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 9000	17.8	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
IV 8000	18.1	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
IV 7000	18.2	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
IV 6000	18.2	84.5	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
IV 5000	18.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
IV 4500	18.5	86.0	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
IV 4000	18.6	87.1	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
IV 3500	18.9	88.9	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 3000	19.2	90.3	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
IV 2500	19.5	92.3	93.0	93.1	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
IV 2000	20.0	95.4	96.2	96.2	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 1800	20.0	95.8	96.6	96.7	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
IV 1500	20.1	96.2	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 1200	20.1	97.3	98.5	98.7	99.0	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 1000	20.1	97.6	98.9	99.0	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 900	20.1	97.7	98.9	99.1	99.5	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 800	20.1	97.7	98.9	99.1	99.5	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 700	20.1	97.7	98.9	99.1	99.5	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 600	20.1	97.7	98.9	99.1	99.5	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 500	20.1	97.7	98.9	99.1	99.5	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 400	20.1	97.7	98.9	99.1	99.5	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 300	20.1	97.7	98.9	99.1	99.5	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 200	20.1	97.7	98.9	99.1	99.5	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 100	20.1	97.7	98.9	99.1	99.5	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 0	20.1	97.7	98.9	99.1	99.5	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 2232

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

PILGRIM ISLAND

STATION NAME

73-52

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)01  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	11.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 20000	11.3	80.6	81.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 18000	11.3	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 16000	11.3	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 14000	11.3	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 12000	11.7	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 10000	11.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 9000	11.7	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 8000	12.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 7000	12.0	87.1	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 6000	12.0	87.1	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 5000	12.0	88.0	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 4500	12.0	89.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 4000	12.0	89.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 3500	12.3	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 3000	12.3	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 2500	12.6	92.9	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 2000	12.6	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1800	12.6	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1500	12.6	97.1	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200	12.0	98.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1000	12.0	98.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900	12.0	98.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	12.0	98.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	12.0	98.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	12.0	98.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	12.0	98.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	12.0	98.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	12.0	98.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	12.0	98.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	12.0	98.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	12.0	98.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 109

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
02701STATION NAME  
MIDWAY ISLANDYEARS  
73-77, 81-82

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)24  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	6.4	73.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 20000	7.4	81.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 18000	7.4	81.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 16000	7.4	81.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 14000	7.4	82.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 12000	7.4	83.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 10000	7.4	84.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 9000	7.4	85.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 8000	7.4	86.8	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 7000	7.4	86.8	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 6000	7.4	86.8	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 5000	7.4	88.4	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 4500	7.4	88.4	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 4000	7.4	89.5	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 3500	7.4	91.1	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 3000	7.4	91.1	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 2500	7.4	92.1	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	94.2	94.2	94.2
≥ 2000	7.4	92.6	94.7	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.8	95.8	95.8
≥ 1800	7.4	92.6	94.7	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.8	95.8	95.8
≥ 1500	7.4	94.7	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.9	97.9	97.9
≥ 1200	7.4	95.3	97.4	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.4	98.4	98.4
≥ 1000	7.4	95.3	98.4	98.4	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.5	99.5	99.5
≥ 900	7.4	96.3	98.4	98.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 800	7.4	96.3	98.4	98.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700	7.4	96.3	98.4	98.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	7.4	96.3	98.4	98.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500	7.4	96.3	98.4	98.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400	7.4	96.3	98.4	98.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300	7.4	96.3	98.4	98.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 200	7.4	96.3	98.4	98.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100	7.4	96.3	98.4	98.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0	7.4	96.3	98.4	98.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS

190

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
10701

STATION NAME  
MCDONALD ISLAND

YEARS  
73-77

MONTH  
AUG

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY  
07  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	11.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 20000	13.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 18000	13.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 16000	13.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 14000	14.2	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
IV 12000	15.2	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
IV 10000	16.2	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
IV 9000	17.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
IV 8000	17.8	78.6	79.0	79.0	79.0	79.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
IV 7000	18.1	80.3	80.6	80.6	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
IV 6000	18.1	80.9	81.2	81.2	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
IV 5000	19.1	82.2	82.5	82.5	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
IV 4500	19.4	82.9	83.5	83.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
IV 4000	19.4	85.4	86.1	86.1	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
IV 3500	20.4	87.4	88.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
IV 3000	20.7	88.4	89.0	89.0	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 2500	20.7	90.3	90.9	90.9	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
IV 2000	20.7	91.9	92.6	92.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
IV 1800	20.7	92.2	92.9	92.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
IV 1500	21.7	94.0	95.2	95.5	96.8	96.8	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 1200	21.7	94.0	95.5	95.8	97.1	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 1000	21.0	94.8	96.1	96.4	98.7	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 900	21.0	94.8	96.1	96.4	98.7	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 800	21.0	94.8	96.4	96.8	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 700	21.0	94.8	96.4	96.8	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 600	21.0	94.8	96.4	96.8	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 500	21.0	94.8	96.4	96.8	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 400	21.0	94.8	96.4	96.8	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 300	21.0	94.8	96.4	96.8	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 200	21.0	94.8	96.4	96.8	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 100	21.0	94.8	96.4	96.8	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 0	21.0	94.8	96.4	96.8	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

309

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION STATION NAME 72-57 YEARS AUG  
10  
10  
10

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING	14.2	53.6	52.6	53.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 20000	14.2	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 18000	14.2	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 16000	14.2	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 14000	14.2	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 12000	14.2	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 10000	14.2	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 9000	21.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 8000	22.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 7000	22.7	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 6000	22.7	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 5000	23.0	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 4500	23.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 4000	23.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 3500	24.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 3000	24.0	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 2500	24.3	93.9	93.9	93.9	93.9	93.9	93.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 2000	24.3	95.8	95.8	95.8	95.8	95.8	95.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1800	24.9	96.1	96.1	96.1	96.8	96.8	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1500	24.9	97.4	97.7	97.7	98.7	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1200	24.9	97.7	98.1	98.1	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	24.9	98.1	98.4	98.4	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900	24.9	98.1	98.4	98.4	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	24.9	98.1	98.4	98.4	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	24.9	98.1	98.4	98.4	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	24.9	98.1	98.4	98.4	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	24.9	98.1	98.4	98.4	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	24.9	98.1	98.4	98.4	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	24.9	98.1	98.4	98.4	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	24.9	98.1	98.4	98.4	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	24.9	98.1	98.4	98.4	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	24.9	98.1	98.4	98.4	99.4	99.4	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 309

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
17171STATION NAME  
HOLLY ISLANDYEARS  
73-77MONTH  
AUGPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

13

HOURS (L &amp; Y)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	14.4	67.2	67.7	68.2	65.2	60.2	60.2	60.2	60.2	63.2	60.2	60.2	60.2	60.2	60.2	67.2
≥ 20000	17.5	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
IV 18000	18.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
IV 14000	18.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
IV 14000	18.5	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
IV 12000	20.1	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
IV 10000	21.7	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
IV 9000	22.3	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
IV 8000	22.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 7000	22.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
IV 6000	23.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
IV 5000	23.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 4500	23.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
IV 4000	24.3	91.3	91.6	91.6	91.6	91.6	91.6	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IV 3500	24.6	92.6	92.9	92.9	92.9	92.9	92.9	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
IV 3000	24.6	93.9	94.2	94.2	94.2	94.2	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 2500	24.6	95.5	95.8	95.8	95.8	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 2000	25.2	96.4	97.1	97.1	97.1	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 1800	25.2	96.4	97.1	97.1	97.1	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 1500	25.6	99.2	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	25.6	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	25.6	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	25.6	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	25.6	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	25.6	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	25.6	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	25.6	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	25.6	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	25.6	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	25.6	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	25.6	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	25.6	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

379

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
27701

STATION NAME  
MIDWAY ISLAND

YEARS  
73-77

MONTH  
AUG

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	14.0	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥ 20000	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 18000	21.0	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 16000	21.0	73.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 14000	21.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 12000	22.0	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 10000	22.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 9000	27.0	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 8000	23.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 7000	24.0	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 6000	24.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 5000	24.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 4500	24.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 4000	24.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 3500	24.0	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 3000	24.0	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 2500	24.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 2000	24.0	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 1800	24.0	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1500	24.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1200	24.0	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1000	25.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900	25.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 800	25.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	25.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	25.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	25.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	25.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	25.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	25.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100	25.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 0	25.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 369

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
10701STATION NAME  
MYUNAY ISLANDYEARS  
73-82MONTH  
AUG

10

HOURS (L &amp; T)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	14.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 20000	17.4	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 18000	17.4	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 16000	17.4	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 14000	17.4	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 12000	17.4	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 10000	17.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 9000	17.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 8000	17.4	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 7000	17.4	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 6000	17.4	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 5000	17.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 4500	17.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 4000	17.4	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 3500	17.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 3000	17.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 2500	17.4	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 2000	17.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1800	17.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1600	17.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1400	17.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200	17.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	17.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	17.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	17.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	17.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	17.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	17.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	17.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	17.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	17.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100	17.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 0	17.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 307

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
17701STATION NAME  
MIDWAY ISLANDYEARS  
73-77, 81-82MONTH  
40PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)HOURS  
22

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	6.4	66.7	64.0	66.3	66.0	66.0	66.0	66.0	64.0	66.0	66.7	66.0	66.0	66.7	66.7	65.0
≥ 20000	6.4	79.1	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
IV 18000	7.3	79.6	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
IV 16000	7.3	79.6	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
IV 14000	7.3	79.6	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
IV 12000	7.3	80.9	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
IV 10000	7.3	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 9000	7.3	84.3	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
IV 8000	7.3	85.3	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
IV 7000	7.3	87.4	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
IV 6000	7.3	88.5	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
IV 5000	7.3	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 4500	7.3	90.1	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
IV 4000	7.3	90.1	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
IV 3500	7.3	91.1	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
IV 3000	7.3	91.1	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
IV 2500	7.3	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
IV 2000	7.3	95.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 1800	7.3	95.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 1500	7.3	96.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 1200	7.3	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 1000	7.3	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 900	7.3	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 800	7.3	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 700	7.3	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 600	7.3	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 500	7.3	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 400	7.3	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 300	7.3	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 200	7.3	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 100	7.3	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 0	7.3	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS

191

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION NAME: NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC  
 STATION: 77-1  
 YEARS: 1971-1972  
 MONTH: ALL  
 HOURS: 00-24

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 20000	100.0	74.4	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 18000	100.0	75.6	75.2	75.8	75.8	75.8	75.9	75.8	75.9	75.8	75.8	75.8	75.8	75.8	75.8	75.8
IV 16000	100.0	76.1	75.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 14000	100.0	76.9	77.5	77.0	77.1	77.1	77.1	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 12000	100.0	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
IV 10000	100.0	81.4	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
IV 9000	100.0	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
IV 8000	100.0	84.5	84.9	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IV 7000	100.0	86.2	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 6000	100.0	86.4	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
IV 5000	100.0	87.6	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
IV 4500	100.0	88.4	88.5	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
IV 4000	100.0	89.6	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
IV 3500	100.0	91.1	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
IV 3000	100.0	91.7	92.1	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 2500	100.0	93.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 2000	100.0	95.1	95.6	95.6	95.9	95.9	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 1800	100.0	95.2	95.8	95.8	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 1500	100.0	97.1	97.7	97.8	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 1200	100.0	97.5	98.4	98.5	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 1000	100.0	97.9	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 900	100.0	97.9	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 800	100.0	97.9	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 700	100.0	97.9	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 600	100.0	97.9	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 500	100.0	97.9	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 400	100.0	97.9	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 300	100.0	97.9	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 200	100.0	97.9	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 100	100.0	97.9	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 0	100.0	97.9	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 7233

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
P701STATION NAME  
KIDWAY ISLANDYEARS  
73-74MONTH  
SEPPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)HOURS (L & T)  
01

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	≥ ¼	≥ 0
NO CEILING	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 20000	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 18000	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 16000	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 14000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 12000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 10000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 9000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 8000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 7000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 6000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 5000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 4500	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 4000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 3500	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 3000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 2500	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 2000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 1800	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 1500	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 1200	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 1000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 900	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 800	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 700	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 600	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 500	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 400	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 300	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 200	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 100	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3

TOTAL NUMBER OF OBSERVATIONS

300

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION: ASHEVILLE STATION NAME: ASHEVILLE YEARS: 73-77, 81-82 MONTH: 04  
 PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) HOURS: 11 57

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 20000	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
18000	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
16000	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
14000	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
12000	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
10000	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
9000	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
8000	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
7000	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
6000	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
5000	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
4500	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
4000	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
3500	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
3000	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
2500	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
2000	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
1800	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
1500	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
1200	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
1000	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
900	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
800	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
700	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
600	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
500	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
400	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
300	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
200	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
100	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
0	7.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1

TOTAL NUMBER OF OBSERVATIONS 1

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION 17701 STATION NAME COAST GUARD STATION 77-1 YEARS 1961 MONTH 07  
 STATION 17701 STATION NAME COAST GUARD STATION 77-1 YEARS 1961 MONTH 07  
 PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) 27 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	19.3	49.3	57.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 20000	19.3	49.3	57.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
IV 18000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 16000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 14000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 12000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 10000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 9000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 8000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 7000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 6000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 5000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 4500	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 4000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 3500	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 3000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 2500	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 2000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 1800	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 1500	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 1200	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 1000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 900	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 800	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 700	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 600	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 500	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 400	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 300	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 200	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 100	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
10701

STATION NAME  
MIDWAY ISLAND

YEARS  
73-77

MONTH  
SEP

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	24.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 20000	24.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
NV 18000	24.7	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
NV 14000	25.0	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
NV 14000	25.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
NV 12000	25.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
NV 10000	26.3	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
NV 9000	26.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
NV 8000	27.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
NV 7000	27.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
NV 6000	27.3	77.7	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
NV 5000	27.3	78.3	78.3	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
NV 4500	27.3	78.3	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
NV 4000	27.3	79.7	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
NV 3500	27.3	83.0	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
NV 3000	27.3	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
NV 2500	27.3	87.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
NV 2000	27.3	91.3	92.7	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
NV 1800	27.3	92.7	93.3	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
NV 1500	27.7	95.3	97.3	97.7	98.0	98.0	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
NV 1200	27.7	95.7	97.7	98.0	98.3	98.3	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
NV 1000	27.7	95.7	98.0	98.3	98.7	98.7	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
NV 900	27.7	95.7	98.0	98.3	98.7	98.7	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
NV 800	27.7	95.7	98.0	98.3	98.7	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NV 700	27.7	95.7	98.0	98.3	98.7	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NV 600	27.7	95.7	98.0	98.3	98.7	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NV 500	27.7	95.7	98.0	98.3	98.7	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NV 400	27.7	95.7	98.0	98.3	98.7	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NV 300	27.7	95.7	98.0	98.3	98.7	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NV 200	27.7	95.7	98.0	98.3	98.7	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NV 100	27.7	95.7	98.0	98.3	98.7	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NV 0	27.7	95.7	98.0	98.3	98.7	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
72112

STATION NAME  
WATKINS ISLAND

STATION NAME

YEARS  
1950

YEARS

MONTH  
SEP

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	17.7	15.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 20000	20.7	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 18000	20.7	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 16000	20.7	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 14000	21.1	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 12000	21.4	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 10000	22.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 9000	23.4	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 8000	24.1	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 7000	24.1	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 6000	24.1	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 5000	24.1	78.3	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 4500	25.1	79.3	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 4000	25.1	81.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 3500	26.7	82.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 3000	26.7	83.6	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 2500	27.8	86.6	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 2000	28.4	90.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1800	28.4	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1500	28.4	94.0	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1200	29.4	95.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1000	29.4	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 900	29.4	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 800	29.4	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 700	29.4	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 600	29.4	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 500	29.4	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 400	29.4	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 300	29.4	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 200	29.4	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 100	29.4	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 0	29.4	96.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3

TOTAL NUMBER OF OBSERVATIONS 299

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

2701  
STATION

ATOMS ISLAND

STATION NAME

73-52

YEARS

SEP

MONTH

15

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	55.1	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 20000	21.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 18000	23.4	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 16000	23.7	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 14000	24.4	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 12000	25.1	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 10000	25.1	76.6	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 9000	25.4	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 8000	25.4	81.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 7000	26.4	81.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 6000	26.3	82.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 5000	27.1	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 4500	27.4	82.9	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 4000	28.1	84.6	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 3500	28.1	85.3	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 3000	29.1	86.3	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 2500	29.4	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2000	29.1	93.0	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1800	29.8	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1500	30.2	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1200	30.2	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1000	30.2	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900	30.2	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	30.2	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	30.2	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	30.2	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	30.2	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	30.2	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	30.2	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	30.2	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	30.2	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	30.2	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS

299

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
2701STATION NAME  
MILWAUKEE ISLANDYEARS  
73-72MONTH  
SEPPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)19  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	½	¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	17.7	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 20000	20.7	68.6	63.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IV 18000	21.1	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
IV 16000	21.4	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
IV 14000	21.7	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
IV 12000	22.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
IV 10000	22.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
IV 9000	23.4	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
IV 8000	23.7	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
IV 7000	23.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
IV 6000	23.7	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
IV 5000	23.7	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
IV 4500	24.4	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
IV 4000	25.1	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
IV 3500	25.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
IV 3000	25.8	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
IV 2500	25.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
IV 2000	26.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
IV 1800	26.1	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IV 1500	26.2	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IV 1200	26.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 1000	26.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 900	26.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 800	26.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 700	26.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 600	26.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 500	26.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 400	26.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 300	26.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 200	26.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 100	26.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 0	26.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

299

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
WILLIAM ISLAND

STATION NAME

73-77, 81-82

YEARS

SFF  
22

BOOTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	¾	≥ 5/16	≥ 0
NO CEILING	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 20000	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
IV 18000	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
IV 16000	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
IV 14000	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
IV 12000	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
IV 10000	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
IV 9000	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
IV 8000	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 7000	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
IV 6000	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
IV 5000	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
IV 4500	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 4000	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
IV 3500	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
IV 3000	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
IV 2500	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
IV 2000	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 1800	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 1600	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 1400	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 1200	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 1000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 900	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 800	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 700	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 600	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 500	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 400	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 300	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 200	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 100	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS

151

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

WISKEY ISLAND

STATION NAME

73-12

YEARS

SEP

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)ALL  
HOURS (L & N)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	15.7	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 20000	17.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
IV 18000	17.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 16000	18.2	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
IV 14000	18.7	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
IV 12000	19.3	74.9	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 10000	19.4	76.3	76.4	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
IV 9000	19.7	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
IV 8000	20.2	79.3	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 7000	20.2	79.9	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
IV 6000	20.9	80.5	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
IV 5000	20.9	81.4	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
IV 4500	20.9	82.3	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
IV 4000	21.3	83.6	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
IV 3500	21.7	85.2	85.6	85.7	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 3000	21.7	86.6	86.9	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IV 2500	22.1	88.9	89.4	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 2000	22.5	93.2	93.9	94.0	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 1800	22.7	93.7	94.5	94.8	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 1500	23.2	96.3	97.3	97.6	97.7	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 1200	23.2	97.4	98.4	98.7	98.9	98.9	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 1000	23.2	97.5	98.6	98.9	99.1	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 900	23.2	97.5	98.6	98.9	99.1	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 800	23.2	97.5	98.6	99.0	99.2	99.3	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
IV 700	23.2	97.6	98.7	99.0	99.3	99.3	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 600	23.2	97.6	98.7	99.0	99.3	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 500	23.2	97.6	98.7	99.0	99.3	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 400	23.2	97.6	98.7	99.0	99.3	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 300	23.2	97.6	98.7	99.0	99.3	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 200	23.2	97.6	98.7	99.0	99.3	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 100	23.2	97.6	98.7	99.0	99.3	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 0	23.2	97.6	98.7	99.0	99.3	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS

2163

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

MIDWAY ISLAND

STATION NAME

73-82

YEARS

01

MONTH

01

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	13.9	62.6	67.6	62.6	67.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 20000	14.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
IV 18000	14.9	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
IV 16000	14.9	69.1	69.1	68.1	62.1	68.1	69.1	68.1	63.1	66.1	62.1	68.1	69.1	66.1	66.1	68.1
IV 14000	14.9	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 12000	14.9	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
IV 10000	14.9	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
IV 9000	14.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
IV 8000	15.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
IV 7000	15.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
IV 6000	15.2	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
IV 5000	15.5	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
IV 4500	15.5	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IV 4000	15.5	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
IV 3500	15.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
IV 3000	15.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
IV 2500	16.8	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
IV 2000	17.1	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IV 1800	17.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
IV 1600	17.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
IV 1500	17.7	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 1200	17.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
IV 1000	17.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 900	17.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 800	17.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 700	17.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 600	17.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 500	17.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 400	17.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 300	17.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 200	17.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 100	17.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 0	17.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
17701STATION NAME  
MIDWAY ISLANDYEARS  
73-77, 81-82MONTH  
OCTPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)NO. OF  
OBS.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 20000	59.4	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
IV 18000	59.4	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
IV 16000	59.4	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
IV 14000	59.4	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
IV 12000	59.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 10000	59.4	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
IV 9000	59.4	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
IV 8000	59.4	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 7000	59.4	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
IV 6000	59.4	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
IV 5000	59.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
IV 4500	10.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IV 4000	10.4	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
IV 3500	10.4	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
IV 3000	11.4	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
IV 2500	11.4	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 2000	12.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 1800	12.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 1500	12.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 1200	12.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 1000	12.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 900	12.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 800	12.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 700	12.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 600	12.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 500	12.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 400	12.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 300	12.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 200	12.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 100	12.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
0	12.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5

TOTAL NUMBER OF OBSERVATIONS

202

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
02700

STATION NAME  
MIDWAY ISLAND

YEARS  
73-72

MONTH  
007

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

DAY  
07  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 5/16	≥ 0
NO CEILING	17.4	47.4	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 20000	1.7	5.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
IV 18000	19.4	57.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
IV 14000	19.4	57.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
IV 14000	19.4	58.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV 12000	19.4	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
IV 10000	19.4	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
IV 9000	19.4	63.2	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 8000	19.4	66.5	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
IV 7000	19.4	67.4	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
IV 6000	19.4	69.4	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
IV 5000	19.4	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
IV 4500	21.4	72.6	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
IV 4000	22.4	74.0	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
IV 3500	22.4	77.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
IV 3000	22.4	80.3	81.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
IV 2500	24.4	86.5	87.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
IV 2000	25.4	91.3	92.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
IV 1800	25.4	91.6	93.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 1500	25.4	94.3	97.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 1200	25.4	95.5	98.1	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 1000	25.4	95.5	98.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 900	25.4	95.8	98.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 800	25.4	95.8	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	25.4	95.8	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	25.4	95.8	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	25.4	95.8	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	25.4	95.8	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	25.4	95.8	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	25.4	95.8	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	25.4	95.8	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	25.4	95.8	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 310

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
ASHEVILLE

STATION NAME  
HOLLYWOOD ISLAND

73-72

YEAR

MONTH  
OCT

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 20000	23.7	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 18000	23.7	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 16000	23.7	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
IV 14000	23.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
IV 12000	23.7	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
IV 10000	24.5	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 9000	24.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 8000	25.9	73.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
IV 7000	26.1	74.8	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
IV 6000	26.1	74.8	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
IV 5000	26.5	75.5	75.9	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
IV 4500	26.5	76.8	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
IV 4000	27.1	76.7	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
IV 3500	28.4	82.3	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
IV 3000	28.0	86.5	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
IV 2500	28.5	91.0	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IV 2000	28.7	95.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 1800	28.7	95.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 1500	28.7	97.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 1200	28.7	97.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 1000	28.7	97.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 900	28.7	97.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 800	28.7	97.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 700	28.7	97.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 600	28.7	97.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 500	28.7	97.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 400	28.7	97.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 300	28.7	97.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 200	28.7	97.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 100	28.7	97.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 0	28.7	97.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 317

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

MIDWAY ISLAND

STATION NAME

77-4

YEARS

MONTH

17

HOURLY OBS.

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	1.0	53.0	53.0	53.0	53.0	3.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 20000	22.0	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 18000	23.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 16000	23.0	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 14000	23.0	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 12000	23.0	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 10000	23.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 9000	24.0	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 8000	24.0	73.2	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 7000	24.0	74.5	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 6000	26.1	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 5000	27.1	77.7	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 4500	27.4	79.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 4000	28.4	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 3500	28.4	82.3	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 3000	28.7	84.2	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 2500	29.7	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 2000	29.7	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 1800	29.7	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1500	29.7	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1200	29.7	96.5	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1000	29.7	96.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 900	29.7	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 800	29.7	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 700	29.7	96.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 600	29.7	96.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 500	29.7	96.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 400	29.7	96.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 300	29.7	96.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 200	29.7	96.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 100	29.7	96.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 0	29.7	96.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS

710

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

73-43

YEARS

201

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16

HOURLY 11 5 7

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
≥ 20000	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
18000	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
16000	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
14000	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
12000	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
10000	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
9000	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
8000	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
7000	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
6000	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
5000	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
4500	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
4000	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
3500	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
3000	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
2500	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
2000	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
1800	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
1500	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
1200	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
1000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
900	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
800	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
700	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
600	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
500	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
400	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
300	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
200	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
100	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS

309

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

11/24/41

STATION NAME

73-47

YEARS

007

MONTH

19

HOURS 11 5 7

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 20000	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 18000	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 16000	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 14000	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 12000	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 10000	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 9000	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 8000	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 7000	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 6000	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 5000	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 4500	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 4000	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 3500	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 3000	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 2500	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 2000	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 1800	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 1500	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 1200	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 1000	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 900	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 800	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 700	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 600	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 500	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 400	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 300	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 200	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 100	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 0	14.4	44.3	4.3	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

HIMMELTOLANE

STATION NAME

75-77.81-52

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)22  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	10.0	60.0	60.0	60.0	50.0	10.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 20000	11.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
IV 18000	11.0	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
IV 16000	11.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
IV 14000	11.0	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
IV 12000	11.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 10000	11.0	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
IV 9000	11.0	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
IV 8000	11.0	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
IV 7000	11.5	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 6000	11.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
IV 5000	11.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
IV 4500	11.5	79.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 4000	11.5	80.5	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
IV 3500	11.5	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
IV 3000	12.0	84.0	84.5	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
IV 2500	12.5	89.0	89.5	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV 2000	13.5	95.0	96.0	96.5	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 1800	13.5	95.0	96.0	96.5	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 1500	14.0	95.5	96.5	97.0	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IV 1200	14.0	96.0	97.0	97.5	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 1000	14.0	96.5	97.5	98.0	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 900	14.0	97.0	98.0	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 800	14.0	97.0	98.0	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 700	14.0	97.0	98.0	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 600	14.0	97.0	98.0	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 500	14.0	97.0	98.0	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 400	14.0	97.0	98.0	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 300	14.0	97.0	98.0	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 200	14.0	97.0	98.0	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 100	14.0	97.0	98.0	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 0	14.0	97.0	98.0	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS

270

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
7701STATION NAME  
KIDNEY ISLANDYEARS  
73-77

DCT

MONTH

ALL

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	17.0	3.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
≥ 20000	17.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
IV 18000	17.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
IV 16000	17.0	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
IV 14000	17.0	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
IV 12000	17.0	64.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 10000	17.0	66.1	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
IV 9000	17.0	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
IV 8000	17.0	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 7000	17.0	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
IV 6000	17.0	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
IV 5000	17.0	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
IV 4500	17.0	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
IV 4000	17.0	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 3500	17.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
IV 3000	17.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
IV 2500	17.0	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
IV 2000	17.0	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 1800	17.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
IV 1500	17.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IV 1200	17.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 1000	17.0	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 900	17.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 800	17.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 700	17.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 600	17.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 500	17.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 400	17.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 300	17.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 200	17.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 100	17.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 0	17.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6

TOTAL NUMBER OF OBSERVATIONS 2236

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

NOV

MONTH

01

HOURS (L S Y)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	47.7	47.3	47.3	47.3	47.7	47.3	47.3	47.7	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.7
≥ 20000	47.7	50.7	51.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 18000	47.7	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
IV 16000	47.7	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
IV 14000	47.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 12000	47.7	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
IV 10000	47.7	55.3	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
IV 9000	47.7	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
IV 8000	47.7	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
IV 7000	47.7	56.3	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV 6000	47.7	58.7	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
IV 5000	47.7	60.0	60.7	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
IV 4500	47.7	61.7	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
IV 4000	47.7	65.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 3500	47.7	71.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
IV 3000	47.7	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
IV 2500	47.7	84.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
IV 2000	47.7	92.3	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
IV 1800	47.7	93.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 1500	47.7	96.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 1200	47.7	96.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 1000	47.7	97.3	98.7	98.0	99.7	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 900	47.7	97.3	98.7	99.3	99.7	99.7	99.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 800	47.7	98.0	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	47.7	98.0	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	47.7	98.0	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	47.7	98.0	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	47.7	98.0	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	47.7	98.0	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	47.7	98.0	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	47.7	98.0	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	47.7	98.0	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 300

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

22701

MIDWAY ISLAND

73-77,81-82

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)04  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	2.3	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
≥ 20000	2.3	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
IV 18000	2.3	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
IV 16000	2.3	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
IV 14000	2.3	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
IV 12000	2.3	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 10000	3.3	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 9000	3.3	61.9	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 8000	3.3	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
IV 7000	3.3	63.5	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
IV 6000	3.3	64.1	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
IV 5000	3.3	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
IV 4500	3.3	66.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
IV 4000	3.3	68.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
IV 3500	5.0	71.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 3000	5.5	75.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 2500	6.6	84.5	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
IV 2000	6.6	84.5	96.1	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 1800	6.6	84.5	96.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 1500	6.6	85.6	97.3	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 1200	6.6	85.6	97.8	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 1000	6.6	86.1	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	6.6	86.1	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	6.6	86.1	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	6.6	86.1	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	6.6	86.1	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	6.6	86.1	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	6.6	86.1	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	6.6	86.1	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	6.6	86.1	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	6.6	86.1	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	6.6	86.1	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

101

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

20701  
STATIONHOLWAY ISLAND  
STATION NAME73-77  
YEARSNOV  
MONTH07  
MOVES (L S T)PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	¾	≥ 0
NO CEILING	5.7	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 20000	6.3	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
IV 18000	6.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
IV 16000	6.7	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
IV 14000	6.7	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
IV 12000	6.7	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
IV 10000	7.7	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
IV 9000	7.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 8000	7.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 7000	7.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
IV 6000	8.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
IV 5000	8.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
IV 4500	8.7	57.7	58.0	58.0	58.3	58.3	58.3	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV 4000	9.3	62.7	63.3	63.3	63.7	63.7	63.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
IV 3500	9.7	66.7	67.3	67.3	68.0	68.0	68.0	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
IV 3000	12.3	75.3	76.0	76.0	76.7	76.7	76.7	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 2500	13.3	82.3	83.3	83.3	84.0	84.0	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
IV 2000	13.7	80.3	82.0	82.0	82.7	82.7	82.7	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
IV 1800	13.7	80.3	82.0	82.0	82.7	82.7	82.7	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
IV 1500	14.3	83.7	86.7	86.7	87.3	87.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
IV 1200	14.3	84.0	87.3	87.3	88.0	88.0	88.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 1000	14.3	84.3	87.7	87.7	88.3	88.3	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
IV 900	14.3	84.3	87.7	87.7	88.3	88.3	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
IV 800	14.3	85.0	88.3	88.3	89.0	89.0	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 700	14.3	85.0	88.3	88.3	89.0	89.0	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 600	14.3	85.0	88.3	88.3	89.0	89.0	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 500	14.3	85.0	88.3	88.3	89.0	89.0	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 400	14.3	85.0	88.3	88.3	89.0	89.0	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 300	14.3	85.0	88.3	88.3	89.0	89.0	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 200	14.3	85.0	88.3	88.3	89.0	89.0	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 100	14.3	85.0	88.3	88.3	89.0	89.0	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 0	14.3	85.0	88.3	88.3	89.0	89.0	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7

TOTAL NUMBER OF OBSERVATIONS 100

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
10701STATION NAME  
MIDWAY ISLANDYEARS  
73-82MONTH  
NOVPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)HOURS (L.S.T.)  
10

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	7.7	38.3	35.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 20000	17.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 18000	17.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 16000	10.3	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
≥ 14000	11.0	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 12000	12.3	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
≥ 10000	13.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 9000	14.7	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 8000	14.7	51.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 7000	14.7	51.3	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 6000	14.7	55.0	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥ 5000	14.7	59.0	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 4500	15.0	60.3	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 4000	16.7	67.0	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 3500	17.3	70.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 3000	20.0	76.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 2500	21.3	84.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 2000	21.7	92.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1800	21.7	92.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1500	21.7	95.0	96.3	96.7	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.3	98.3
≥ 1200	21.7	95.0	96.7	97.0	98.0	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1000	21.7	95.3	97.0	97.3	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.3	99.3
≥ 900	21.7	95.3	97.0	97.3	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.3	99.3
≥ 800	21.7	95.3	97.0	97.3	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.3	99.3
≥ 700	21.7	95.3	97.0	97.3	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.3	99.3
≥ 600	21.7	95.3	97.0	97.3	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.3	99.3
≥ 500	21.7	95.3	97.0	97.3	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.3	99.3
≥ 400	21.7	95.3	97.0	97.3	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.3	99.3
≥ 300	21.7	95.3	97.0	97.3	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.3	99.3
≥ 200	21.7	95.3	97.0	97.3	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.3	99.3
≥ 100	21.7	95.3	97.0	97.3	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.3	99.3
≥ 0	21.7	95.3	97.0	97.3	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 370

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
12701STATION NAME  
STONEY ISLAND

12-50

YEARS

NCV

MONTH

13

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	12.3	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
IV 20000	13.3	47.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
IV 18000	13.7	48.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
IV 16000	13.7	48.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
IV 14000	13.7	49.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 12000	14.0	51.0	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
IV 10000	14.0	52.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
IV 9000	14.3	53.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
IV 8000	14.7	56.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
IV 7000	14.7	60.7	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
IV 6000	14.7	60.7	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
IV 5000	15.0	62.7	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
IV 4500	15.7	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 4000	16.7	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 3500	18.0	72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
IV 3000	18.7	76.0	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
IV 2500	20.0	84.0	85.0	85.3	85.3	85.3	85.3	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
IV 2000	21.3	90.3	92.0	92.3	92.3	92.7	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
IV 1800	21.3	90.7	92.3	92.7	92.7	93.0	93.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IV 1500	21.3	94.0	95.7	96.0	96.3	96.7	96.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 1200	21.3	94.3	96.0	96.3	96.7	97.0	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 1000	21.3	95.0	97.0	97.3	97.7	98.0	98.0	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 900	21.3	95.0	97.0	97.3	98.0	98.3	98.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 800	21.3	95.0	97.0	97.3	98.0	98.3	98.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 700	21.3	95.0	97.0	97.3	98.0	98.3	98.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	21.3	95.0	97.0	97.3	98.0	98.3	98.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	21.3	95.0	97.0	97.3	98.0	98.3	98.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	21.3	95.0	97.0	97.3	98.0	98.3	98.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	21.3	95.0	97.0	97.3	98.0	98.3	98.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	21.3	95.0	97.0	97.3	98.0	98.3	98.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	21.3	95.0	97.0	97.3	98.0	98.3	98.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	21.3	95.0	97.0	97.3	98.0	98.3	98.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

300

DIRNAVOCEANMET

SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

72-52

YEAR

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)16  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
≥ 20000	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 18000	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 16000	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 14000	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 12000	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 10000	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 9000	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 8000	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 7000	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 6000	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 5000	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 4500	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 4000	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 3500	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 3000	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 2500	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 2000	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1800	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1500	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1200	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1000	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 900	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 800	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 700	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 600	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 500	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 400	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 300	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 200	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 100	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS

300

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

12701  
STATION

HATTON ISLAND

STATION NAME

77-22

YEAR

NOV  
MONTH19  
HOURS (LST)PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	6.7	41.3	41.7	41.7	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 20000	6.7	47.3	47.7	47.7	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
IV 18000	5.7	47.7	48.0	48.0	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
IV 16000	5.7	48.3	48.7	48.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
IV 14000	7.0	49.3	49.7	49.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 12000	7.0	50.0	50.3	50.3	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 10000	8.0	52.7	53.0	53.0	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
IV 9000	8.0	53.0	53.3	53.3	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
IV 8000	8.0	56.0	56.3	56.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
IV 7000	8.0	56.3	56.7	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
IV 6000	8.0	57.7	58.0	58.0	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
IV 5000	8.7	59.3	59.7	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
IV 4500	8.7	62.7	63.0	63.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
IV 4000	8.7	66.0	66.3	66.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 3500	10.3	69.7	69.7	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
IV 3000	10.7	74.0	74.3	74.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
IV 2500	13.3	84.0	84.3	84.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
IV 2000	13.3	91.0	91.7	91.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV 1800	13.3	91.7	92.7	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
IV 1500	13.3	95.3	96.3	96.3	96.7	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 1200	13.3	95.7	97.0	97.3	98.0	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 1000	13.3	96.0	97.3	97.7	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 900	13.3	96.3	97.3	97.7	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 800	13.3	96.0	97.3	97.7	98.7	98.7	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.7	99.7	99.7
IV 700	13.3	96.0	97.3	97.7	98.7	98.7	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.7	99.7	99.7
IV 600	13.3	96.0	97.3	97.7	98.7	98.7	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.7	99.7	99.7
IV 500	13.3	96.0	97.3	97.7	98.7	98.7	99.0	99.3	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0
IV 400	13.3	96.0	97.3	97.7	98.7	98.7	99.0	99.3	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0
IV 300	13.3	96.0	97.3	97.7	98.7	98.7	99.0	99.3	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0
IV 200	13.3	96.0	97.3	97.7	98.7	98.7	99.0	99.3	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0
IV 100	13.3	96.0	97.3	97.7	98.7	98.7	99.0	99.3	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0
IV 0	13.3	96.0	97.3	97.7	98.7	98.7	99.0	99.3	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

300

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

27701  
STATIONMIDWAY ISLAND  
STATION NAME73-77, 81-82  
YEARSNOV  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)22  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	¾	≥ 5/16	≥ ¼	≥ 0
NO CEILING	5.4	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥ 20000	5.4	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
IVN 18000	5.4	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
IVN 16000	5.4	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
IVN 14000	5.4	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
IVN 12000	5.4	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
IVN 10000	7.2	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
IVN 9000	7.2	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IVN 8000	7.2	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
IVN 7000	7.2	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
IVN 6000	7.2	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
IVN 5000	7.2	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
IVN 4500	7.2	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
IVN 4000	7.2	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IVN 3500	7.2	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
IVN 3000	8.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
IVN 2500	8.3	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
IVN 2000	8.3	90.1	90.1	90.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
IVN 1800	8.3	90.1	90.1	90.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
IVN 1500	8.3	95.0	95.0	95.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IVN 1200	8.3	96.1	96.1	96.7	97.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IVN 1000	8.3	96.1	96.1	96.7	97.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IVN 900	8.3	96.1	96.1	96.7	97.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IVN 800	8.3	96.7	96.7	97.2	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IVN 700	8.3	96.7	96.7	97.2	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IVN 600	8.3	96.7	96.7	97.2	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IVN 500	8.3	96.7	96.7	97.2	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IVN 400	8.3	96.7	96.7	97.8	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IVN 300	8.3	96.7	96.7	97.8	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IVN 200	8.3	96.7	96.7	97.8	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IVN 100	8.3	96.7	96.7	97.8	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
0	8.3	96.7	96.7	97.8	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 121

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
2701STATION NAME  
WILSON ISLANDYEARS  
19-67MONTH  
NOVPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)ALL  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	½	¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	7.7	42.9	42.6	42.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 20000	7.7	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
18000	8.1	48.1	48.2	48.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
16000	8.1	48.3	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
14000	8.1	49.1	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
12000	8.1	50.1	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
10000	9.1	52.8	52.7	52.7	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
9000	9.4	53.4	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
8000	9.8	55.7	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
7000	9.8	56.9	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
6000	9.8	58.0	58.3	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
5000	9.9	59.9	60.3	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
4500	10.2	62.0	62.5	62.5	62.6	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
4000	10.2	65.9	66.5	66.5	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
3500	11.7	69.8	70.4	70.5	70.6	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
3000	12.5	75.0	75.7	75.7	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
2500	14.3	83.3	84.0	84.1	84.2	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
2000	14.9	91.2	92.2	92.3	92.6	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
1800	14.3	91.7	92.9	93.1	93.3	93.4	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.8	93.8
1500	15.1	95.1	96.5	96.7	97.2	97.2	97.4	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
1200	15.1	95.4	97.0	97.2	97.7	97.9	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.4
1000	15.1	95.8	97.5	97.8	98.3	98.5	98.7	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
900	15.1	95.8	97.5	97.8	98.4	98.5	98.7	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3
800	15.1	96.0	97.7	98.1	98.7	98.8	99.0	99.4	99.4	99.6	99.6	99.6	99.6	99.7	99.7	99.7
700	15.1	96.0	97.7	98.1	98.7	98.8	99.0	99.5	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8
600	15.1	96.0	97.7	98.1	98.7	98.8	99.0	99.5	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8
500	15.1	96.0	97.7	98.1	98.7	98.8	99.1	99.5	99.6	99.8	99.8	99.8	99.8	99.9	100.0	100.0
400	15.1	96.0	97.7	98.1	98.8	98.9	99.1	99.6	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0
300	15.1	96.0	97.7	98.1	98.8	98.9	99.1	99.6	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0
200	15.1	96.0	97.7	98.1	98.8	98.9	99.1	99.6	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0
100	15.1	96.0	97.7	98.1	98.8	98.9	99.1	99.6	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0
0	15.1	96.0	97.7	98.1	98.8	98.9	99.1	99.6	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2162

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
10701

STATION NAME  
MIDWAY ISLAND

YEARS  
70-72

DEC  
NORTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (L E T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	5.0	17.3	53.5	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 20000	5.0	16.5	56.9	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
IV 18000	5.0	56.8	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 16000	5.0	56.8	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 14000	5.0	57.8	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
IV 12000	5.0	58.4	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
IV 10000	5.0	60.4	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
IV 9000	5.0	61.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
IV 8000	5.0	62.3	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
IV 7000	5.0	64.3	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
IV 6000	5.0	64.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 5000	5.0	66.9	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
IV 4500	5.0	68.8	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
IV 4000	5.0	72.4	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
IV 3500	5.0	76.3	77.0	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
IV 3000	5.0	79.9	80.5	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
IV 2500	5.0	85.4	85.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
IV 2000	5.0	90.3	90.9	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 1800	5.0	90.9	92.5	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
IV 1500	5.0	92.4	94.2	95.8	96.1	96.1	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 1200	5.0	93.2	94.6	96.4	96.8	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 1000	5.0	93.5	95.5	97.1	97.7	97.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 900	5.0	93.8	95.5	97.4	98.1	98.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 800	5.0	93.8	95.5	97.4	98.1	98.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 700	5.0	93.8	95.5	97.4	98.1	98.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 600	5.0	93.8	95.5	97.4	98.1	98.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 500	5.0	93.8	95.5	97.4	98.1	98.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 400	5.0	93.8	95.5	97.4	98.1	98.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 300	5.0	94.2	96.1	97.7	98.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	5.0	94.2	96.1	97.7	98.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	5.0	94.2	96.1	97.7	98.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	5.0	94.2	96.1	97.7	98.7	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

703

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

73-77,81-82

YEARS

DATE

MONTH

DAY

HOURLY

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	7.7	54.9	50.5	57.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
≥ 20000	7.7	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 18000	7.7	54.4	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV 16000	7.7	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV 14000	7.7	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
IV 12000	7.7	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
IV 10000	7.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
IV 9000	7.7	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
IV 8000	7.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
IV 7000	7.7	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
IV 6000	7.7	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
IV 5000	7.7	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
IV 4500	7.7	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
IV 4000	7.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
IV 3500	7.7	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
IV 3000	7.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
IV 2500	7.7	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
IV 2000	7.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
IV 1800	7.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
IV 1500	7.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
IV 1200	7.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
IV 1000	7.7	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 900	7.7	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 800	7.7	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 700	7.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 600	7.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 500	7.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 400	7.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 300	7.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 200	7.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 100	7.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 0	7.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 104

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

HOLLY HILL

STATION NAME

73-72

YEARS

DEPT

NORTH

7

HOURS 11.5 T.

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	5.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
≥ 20000	5.7	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
IV 18000	5.7	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
IV 16000	5.7	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
IV 14000	5.7	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
IV 12000	5.7	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
IV 10000	5.7	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
IV 9000	5.7	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 8000	5.7	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
IV 7000	5.7	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
IV 6000	5.7	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
IV 5000	5.7	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
IV 4500	5.7	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
IV 4000	7.0	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
IV 3500	7.4	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
IV 3000	9.1	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
IV 2500	10.4	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
IV 2000	10.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 1800	11.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
IV 1500	11.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 1200	11.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
IV 1000	11.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 900	11.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 800	11.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 700	11.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 600	11.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 500	11.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 400	11.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 300	11.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 200	11.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 100	11.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 0	11.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

735

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)10  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	11.5	30.3	31.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
≥ 20000	11.5	44.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
IV 18000	12.4	44.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
IV 16000	12.4	44.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
IV 14000	12.4	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
IV 12000	12.4	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
IV 10000	12.4	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 9000	12.4	48.1	47.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
IV 8000	12.4	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
IV 7000	12.4	52.9	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
IV 6000	12.4	53.6	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
IV 5000	13.7	54.4	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
IV 4500	14.6	56.1	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 4000	15.1	63.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
IV 3500	17.6	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
IV 3000	19.2	77.3	78.6	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
IV 2500	21.1	83.1	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 2000	21.1	86.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 1800	21.1	89.6	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
IV 1500	21.1	91.2	95.1	96.1	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 1200	21.1	91.2	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 1000	21.1	91.2	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 900	21.1	91.2	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 800	21.1	91.2	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 700	21.1	91.2	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 600	21.1	91.2	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 500	21.1	91.2	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 400	21.1	91.2	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 300	21.1	91.2	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 200	21.1	91.2	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 100	21.1	91.2	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 0	21.1	91.2	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4

TOTAL NUMBER OF OBSERVATIONS

308

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

JACKSON ISLAND

STATION NAME

73-42

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)13  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.7	41.7	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
≥ 20000	11.7	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
IV 18000	11.7	45.3	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 16000	11.7	45.3	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 14000	11.7	45.6	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
IV 12000	12.4	46.3	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
IV 10000	12.4	46.9	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
IV 9000	13.0	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
IV 8000	14.0	53.1	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 7000	14.7	55.7	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 6000	14.3	57.3	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
IV 5000	15.6	60.3	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
IV 4500	16.0	63.2	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
IV 4000	15.6	65.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
IV 3500	18.0	70.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
IV 3000	13.2	75.3	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
IV 2500	11.7	82.7	84.4	84.7	85.0	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
IV 2000	12.7	86.9	90.6	91.2	91.9	92.5	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.5	93.5
IV 1800	12.2	89.9	91.5	92.2	92.6	93.5	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.5	94.5	94.5
IV 1500	12.2	91.9	93.8	94.5	95.1	95.8	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.7	97.7	97.7
IV 1200	12.2	91.6	94.1	94.8	95.4	96.1	97.8	97.7	98.1	98.1	98.1	98.1	98.1	98.4	98.4	98.4
IV 1000	12.2	91.9	94.8	95.1	95.8	96.4	97.7	98.1	98.4	98.4	98.4	98.4	98.4	98.7	98.7	98.7
IV 900	12.2	92.2	94.8	95.4	96.1	96.7	98.1	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.4	99.4
IV 800	12.2	92.2	94.8	95.4	96.1	96.7	98.1	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.4	99.4
IV 700	12.2	92.2	94.8	95.4	96.1	96.7	98.1	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.4	99.4
IV 600	12.2	92.2	94.8	95.4	96.1	96.7	98.1	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.4	99.4
IV 500	12.2	92.2	94.8	95.4	96.1	96.7	98.1	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.4	99.4
IV 400	12.2	92.2	94.8	95.4	96.1	96.7	98.1	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.4	99.4
IV 300	12.2	92.2	94.8	95.4	96.1	96.7	98.1	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.4	99.4
IV 200	12.2	92.2	94.8	95.4	96.1	96.7	98.1	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.4	99.4
IV 100	12.2	92.2	94.8	95.4	96.1	96.7	98.1	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.4	99.4
IV 0	12.2	92.2	94.8	95.4	96.1	96.7	98.1	98.4	98.7	98.7	98.7	98.7	98.7	99.0	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 317

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

HUTCHINSON

STATION NAME

73-42

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

16

HOURS (L &amp; T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.7	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
IV 20000	11.7	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
IV 18000	12.7	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
IV 16000	12.7	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
IV 14000	13.7	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
IV 12000	13.7	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
IV 10000	13.7	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 9000	14.3	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
IV 8000	14.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
IV 7000	14.3	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IV 6000	14.3	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
IV 5000	15.6	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
IV 4500	16.2	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
IV 4000	16.9	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IV 3500	17.9	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
IV 3000	19.2	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
IV 2500	20.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV 2000	20.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
IV 1800	20.1	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
IV 1500	20.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
IV 1200	20.1	94.2	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 1000	20.1	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 900	20.1	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 800	20.1	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 700	20.1	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 600	20.1	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 500	20.1	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 400	20.1	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 300	20.1	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 200	20.1	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 100	20.1	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 0	20.1	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5

TOTAL NUMBER OF OBSERVATIONS

152

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
2701STATION NAME  
HIGHWAY ISLANDYEARS  
73-87MONTH  
DECPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)HOURS (LST)  
19

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	7.5	39.6	39.6	39.6	39.6	39.6	37.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 20000	7.5	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IN 18000	7.5	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
IN 16000	7.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
IN 14000	7.5	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IN 12000	7.5	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
IN 10000	7.5	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IN 9000	7.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IN 8000	8.1	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
IN 7000	8.1	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
IN 6000	8.4	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
IN 5000	8.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
IN 4500	9.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
IN 4000	10.1	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
IN 3500	10.7	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
IN 3000	11.7	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
IN 2500	12.7	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IN 2000	13.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IN 1800	13.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IN 1500	13.6	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
IN 1200	13.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
IN 1000	13.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IN 900	13.6	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IN 800	13.6	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IN 700	13.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IN 600	13.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IN 500	13.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IN 400	13.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IN 300	13.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 200	13.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 100	13.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 0	13.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

309

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
12701STATION NAME  
MIDWAY ISLANDYEARS  
73-77, 81-82MONTH  
DECPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)HOURS (LST)  
22

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	7.7	43.7	43.7	43.7	49.7	48.7	48.7	43.7	48.7	48.7	48.7	49.7	48.7	48.7	48.7	48.7
≥ 20000	8.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 18000	8.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 16000	8.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 14000	8.2	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 12000	8.7	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 10000	8.7	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
≥ 9000	8.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 8000	8.7	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 7000	8.7	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 6000	8.7	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 5000	8.7	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 4500	8.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 4000	8.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥ 3500	9.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 3000	10.3	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 2500	10.8	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 2000	11.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1800	11.3	90.3	91.8	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1500	11.3	94.4	95.4	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1200	11.3	94.4	96.4	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1000	11.3	94.5	96.9	97.4	97.4	97.4	97.4	98.0	98.0	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 900	11.3	94.9	96.9	97.4	97.4	97.4	97.4	98.0	98.0	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 800	11.3	94.9	96.9	97.4	97.4	97.4	97.4	98.0	98.0	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 700	11.3	95.4	97.4	98.0	98.5	98.5	98.5	98.5	98.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	11.3	95.9	98.0	98.5	98.5	98.5	98.5	98.5	98.5	99.0	99.0	99.5	99.5	99.5	99.5	99.5
≥ 500	11.3	95.9	98.0	98.5	98.5	98.5	98.5	98.5	98.5	99.0	99.0	99.5	99.5	99.5	99.5	99.5
≥ 400	11.3	95.9	98.0	98.5	98.5	98.5	98.5	98.5	98.5	99.0	99.0	99.5	99.5	99.5	99.5	99.5
≥ 300	11.3	95.9	98.0	98.5	98.5	98.5	98.5	98.5	98.5	99.0	99.0	99.5	99.5	99.5	99.5	99.5
≥ 200	11.3	95.9	98.0	98.5	98.5	98.5	98.5	98.5	98.5	99.0	99.0	99.5	99.5	99.5	99.5	99.5
≥ 100	11.3	95.9	98.0	98.5	98.5	98.5	98.5	98.5	98.5	99.0	99.0	99.5	99.5	99.5	99.5	99.5
≥ 0	11.3	95.9	98.0	98.5	98.5	98.5	98.5	98.5	98.5	99.0	99.0	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 195

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
73701

STATION NAME  
MIDWAY ISLAND

YEARS  
73-82

MONTH  
DEC

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	≥ ¼	≥ 0
NO CEILING	4.2	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
≥ 20000	7.7	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
IV 18000	9.1	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 16000	9.4	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
IV 14000	9.1	47.8	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
IV 12000	9.3	48.5	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
IV 10000	9.4	50.9	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
IV 9000	9.7	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
IV 8000	9.9	54.5	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
IV 7000	9.9	56.9	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 6000	10.1	58.1	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
IV 5000	10.9	60.3	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
IV 4500	11.1	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
IV 4000	11.7	67.4	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
IV 3500	12.4	71.6	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
IV 3000	13.4	78.0	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
IV 2500	14.5	83.9	85.0	85.5	85.6	85.6	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 2000	15.1	89.3	91.1	91.8	92.0	92.2	92.3	92.4	92.4	92.4	92.4	92.4	92.5	92.5	92.5	92.5
IV 1800	15.1	91.2	92.0	92.7	92.8	93.1	93.2	93.3	93.3	93.3	93.4	93.4	93.5	93.5	93.5	93.5
IV 1500	15.2	92.7	94.7	95.6	95.9	96.2	96.4	96.5	96.5	96.6	96.7	96.7	96.7	96.7	96.8	96.8
IV 1200	15.2	93.1	95.3	96.2	96.5	96.6	97.2	97.3	97.3	97.5	97.5	97.5	97.6	97.6	97.7	97.7
IV 1000	15.2	93.4	95.7	96.7	97.2	97.6	98.3	98.4	98.5	98.7	98.8	98.8	98.9	98.9	99.0	99.0
IV 900	15.2	93.4	95.8	96.8	97.3	97.8	98.4	98.6	98.7	98.9	99.0	99.0	99.1	99.1	99.2	99.2
IV 800	15.2	93.5	95.9	97.0	97.4	97.9	98.6	98.8	98.9	99.1	99.2	99.2	99.3	99.3	99.4	99.4
IV 700	15.2	93.6	96.0	97.1	97.5	98.1	98.7	99.0	99.1	99.3	99.5	99.5	99.6	99.6	99.6	99.6
IV 600	15.2	93.7	96.1	97.1	97.6	98.1	98.8	99.0	99.1	99.4	99.5	99.5	99.6	99.6	99.7	99.7
IV 500	15.2	93.7	96.1	97.1	97.6	98.2	98.8	99.1	99.2	99.5	99.7	99.7	99.8	99.8	99.9	99.9
IV 400	15.2	93.7	96.1	97.1	97.6	98.2	98.8	99.1	99.2	99.5	99.7	99.7	99.8	99.8	99.9	99.9
IV 300	15.2	93.7	96.2	97.2	97.7	98.3	98.9	99.2	99.3	99.6	99.8	99.8	99.9	99.9	100.0	100.0
IV 200	15.2	93.7	96.2	97.2	97.6	98.3	98.9	99.2	99.3	99.6	99.8	99.8	99.9	99.9	100.0	100.0
IV 100	15.2	93.7	96.2	97.2	97.8	98.3	98.9	99.2	99.3	99.6	99.8	99.8	99.9	99.9	100.0	100.0
IV 0	15.2	93.7	96.2	97.2	97.8	98.3	98.9	99.2	99.3	99.6	99.8	99.8	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2236

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
27701STATION NAME  
HITCHEY ISLAND

73-82

YEARS

ALL  
MONTHSPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)ALL  
HOURS 11 51

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	12.1	40.9	49.9	40.9	47.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
≥ 20000	13.4	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥ 18000	13.4	57.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 16000	13.4	57.5	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 14000	13.4	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
≥ 12000	14.1	59.1	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 10000	14.5	60.8	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 9000	14.5	61.5	61.7	61.8	61.9	61.8	61.8	61.9	61.9	61.8	61.8	61.8	61.8	61.8	61.8
≥ 8000	15.0	63.6	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 7000	15.1	65.1	65.4	65.4	65.4	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 6000	15.2	66.0	66.4	66.4	66.4	66.4	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 5000	15.5	67.5	67.9	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 4500	15.6	69.3	69.7	69.7	69.7	69.7	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 4000	15.6	72.0	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 3500	17.0	75.5	76.1	76.2	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 3000	17.7	79.8	80.5	80.6	80.7	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 2500	18.4	85.2	86.1	86.2	86.3	86.4	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 2000	19.1	90.5	91.7	92.0	92.1	92.2	92.3	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4
≥ 1800	19.3	91.0	92.3	92.6	92.7	92.8	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 1500	19.6	94.0	95.7	96.1	96.4	96.4	96.6	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1200	19.6	94.7	96.5	96.9	97.3	97.4	97.5	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8
≥ 1000	19.6	95.4	97.3	97.8	98.3	98.5	98.7	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 900	19.7	95.5	97.4	97.9	98.4	98.6	98.8	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800	19.7	95.6	97.6	98.2	98.7	98.8	99.1	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700	19.7	95.7	97.6	98.2	98.8	98.9	99.2	99.4	99.5	99.6	99.7	99.7	99.7	99.7	99.7
≥ 600	19.7	95.7	97.7	98.3	98.8	99.0	99.3	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	19.7	95.7	97.7	98.3	98.9	99.0	99.4	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9
≥ 400	19.7	95.7	97.7	98.3	98.9	99.1	99.4	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	19.7	95.7	97.7	98.3	98.9	99.1	99.4	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	19.7	95.7	97.7	98.3	98.9	99.1	99.4	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	19.7	95.7	97.7	98.3	98.9	99.1	99.4	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0	19.7	95.7	97.7	98.3	98.9	99.1	99.4	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 26201

DIRNAVOCEANMET SMOS



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# SKY COVER

22701 MIOWA ISLAND

73-82

FEB

STATION

STATION NAME

PERIOD

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
FEB	01	14.4			34.8						30.4	20.4	5.8	250
	04	9.8			31.3						33.1	25.8	6.5	163
	07	3.9			34.0						40.4	21.6	6.8	282
	10	5.7			30.9						37.6	25.9	6.9	282
	13	5.3			32.3						37.9	24.5	6.8	282
	16	3.0			41.1						32.6	22.3	6.4	282
	19	4.7			34.8						38.4	22.6	6.7	279
	22	6.8			42.9						30.4	19.9	6.0	161
TOTALS		6.8			35.2						35.1	22.9	6.5	1981

NAVWEASERVCOM







# SKY COVER

22701 MIDWAY ISLAND

73-82

APR

STATION

STATION NAME

PERIOD

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
APR	01	5.3			34.7						35.3	24.7	6.7	300
	04	2.2			34.3						43.1	20.4	7.0	181
	07	.3			24.7						43.7	31.3	7.8	300
	10	2.0			28.3						46.3	23.3	7.4	300
	13	2.0			33.7						44.7	19.7	7.0	300
	16	2.0			33.0						44.7	20.3	7.0	300
	19	1.0			30.3						47.3	21.3	7.3	300
	22	2.2			43.1						33.7	21.0	6.4	181
TOTALS		2.1	7		32.8						42.4	22.8	7.1	2162

NAVWEASERVCOM



## 3

73-87

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73-82

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SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
MIDWAY ISLAND(U) NAVAL OCEANOGRAPHY COMMAND DETACHMENT  
ASHEVILLE NC AUG 84

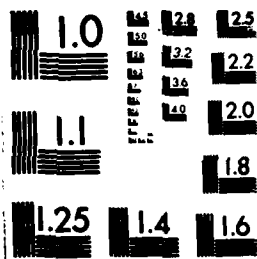
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MICROCOPY RESOLUTION TEST CHART  
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# SKY COVER

22701 MIDWAY ISLAND

73-82

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STATION NAME

PERIOD

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
AUG	01	4.5			58.6						26.5	10.4	5.2	309
	04	1.6			64.7						26.3	7.4	5.0	190
	07				47.9						38.2	13.9	6.3	309
	10	.3			46.3						42.7	10.7	6.3	309
	13				48.5						41.1	10.4	6.2	309
	16				46.9						38.5	14.6	6.3	309
	19				47.2						37.5	15.3	6.3	307
	22	.5			58.6						29.8	11.0	5.5	191
TOTALS		.9			52.3						35.1	11.7	5.9	2233

NAVWEASERVCOM



## 3

73-82

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**73-82**

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## RESULTS

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73-82

DEC

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# SKY COVER

22701 MIDWAY ISLAND

73-82

ALL

STATION

STATION NAME

PERIOD

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	ALL	4.2			37.3						35.2	23.3	6.6	2171
FEB		6.8			35.2						35.1	22.9	6.5	1981
MAR		3.7			31.7						35.8	28.8	7.0	2213
APR		2.1			32.8						42.4	22.8	7.1	2162
MAY		3.2			37.3						36.9	22.6	6.7	2231
JUN		2.8			46.8						33.1	17.4	6.1	2158
JUL		1.2			56.1						33.5	9.1	5.6	2232
AUG		.9			52.3						35.1	11.7	5.9	2233
SEP		1.2			52.9						33.9	12.0	5.8	2166
OCT		1.2			46.3						38.1	14.5	6.3	2259
NOV		1.4			37.0						41.5	20.1	6.9	2162
DEC		3.9			36.5						36.6	23.2	6.7	2236
TOTALS		2.7			41.9						36.4	19.0	6.4	26204

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Asheville, N. C.

## PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperature
  - b. Daily minimum temperature
  - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
  - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.



- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma x$ ). The number of observations used in the computations for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

- 4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:
  - a. Dry-bulb temperature
  - b. Wet-bulb temperature
  - c. Dew-point temperature
- 5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
  - a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
  - b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.
- 6. Percentage frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm).







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47-97

STATION NAME

**YEARS**

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

41414-0

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2721  
STATION

MIDWAY ISLAND

4: - 9 -

STATION NAME

**YEARS**

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

[illegible]

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3

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

1942-1997

YEARS

JANUARY

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	6.5	19.2	7.1	21.2	76	24.4	1975	62.3	17.1	54	12.2	1965
2	6.6	19.2	7.5	21.4	75	24.1	1975	62.8	17.1	53	11.7	1973
3	6.7	19.3	7.3	21.3	75	24.1	1975	63.2	17.3	57	13.9	1975
4	6.7	19.3	7.4	21.3	80	24.7	1975	63.3	17.4	57	13.9	1957
5	6.5	18.8	69.3	20.7	80	26.7	1975	62.4	16.9	51	11.6	1982
6	6.4	19.1	70.3	21.3	80	26.7	1975	62.6	17.0	54	12.2	1977
7	6.4	19.3	70.8	21.6	73	23.6	1975	62.9	17.2	54	12.2	1977
8	6.7	19.3	70.3	21.3	75	23.9	1981*	63.1	17.3	53	11.7	1977
9	6.7	18.9	70.1	21.2	76	24.4	1976*	62.1	16.7	52	11.1	1981
10	6.5	18.8	69.6	20.9	77	25.7	1967	62.1	16.7	49	9.4	1955
11	5.4	16.6	69.3	20.7	76	24.4	1967	61.8	16.3	53	11.7	1972
12	5.8	18.6	69.5	20.9	76	24.4	1976	61.5	16.4	50	10.0	1962
13	6.7	19.1	71.0	21.1	77	25.7	1975	62.5	16.9	54	12.2	1982
14	5.8	18.6	69.7	20.9	77	25.6	1975	61.3	16.3	54	12.2	1982
15	5.8	18.5	69.0	20.6	76	24.4	1979	61.6	16.4	52	11.1	1977
16	5.7	18.5	69.2	20.7	77	25.7	1964	61.4	16.3	51	11.6	1977
17	5.7	18.6	69.0	20.6	76	24.4	1951	62.1	16.7	53	11.7	1977
18	5.7	18.4	67.3	20.3	76	24.4	1951	61.1	16.2	55	12.8	1976
19	5.8	18.5	68.6	20.8	77	25.7	1974	61.0	16.1	54	12.2	1965*
20	4.7	18.3	64.6	20.3	75	24.4	1979	61.1	16.2	52	11.1	1982
21	4.1	17.8	65.4	20.2	75	23.9	1964	59.8	15.4	52	11.1	1965
22	5.7	13.4	63.7	20.7	75	23.9	1966	61.1	16.2	52	11.1	1975
23	5.8	15.7	63.5	20.9	75	23.9	1973	61.8	16.6	53	11.7	1977
24	5.8	15.6	63.6	20.9	75	23.9	1951	61.4	16.3	57	13.9	1961
25	5.7	13.3	64.7	20.4	74	23.3	1982*	61.1	16.2	52	11.1	1977
26	4.7	13.2	63.6	20.3	75	23.9	1982	60.9	16.1	52	11.1	1977
27	5.8	13.5	63.8	20.4	75	23.9	1982	61.7	16.5	55	12.0	1957
28	5.7	13.6	63.3	20.7	74	23.3	1973	61.6	16.4	56	12.3	1975
29	4.7	13.2	63.5	20.3	73	22.5	1982*	60.9	16.1	51	10.6	1976
30	5.6	18.7	69.6	20.9	76	24.4	1953	61.6	16.4	52	11.1	1976
31	6.4	18.2	68.6	20.3	75	23.9	1973	61.1	16.2	53	11.7	1977
Monthly	5.6	13.7	69.5	20.8	80	26.7	1975	61.8	16.6	49	9.4	1955

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

1949-1982

YEARS

FEBRUARY  
MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME			
	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C		
1	5.4	18.6	69.2	20.7	77	23.9	1967	61.6	16.4	55	12.8	1957
2	65.8	18.8	69.6	20.9	77	25.7	1974	62.0	16.7	52	11.1	1977
3	65.5	18.6	69.1	20.6	77	25.7	1974	61.9	16.6	51	10.6	1976
4	65.6	18.7	69.2	20.7	75	23.9	1974*	62.7	16.7	56	13.3	1976*
5	65.6	18.7	69.8	21.1	76	24.4	1969	61.5	16.4	55	12.8	1977
6	65.5	18.6	69.4	20.8	76	24.4	1977*	61.5	16.4	53	11.7	1976
7	64.3	18.2	69.5	20.3	75	23.9	1974	61.7	16.1	55	12.8	1981
8	5.1	18.4	69.2	20.7	73	25.6	1974	61.7	16.1	56	13.3	1972*
9	5.1	18.4	69.0	20.6	80	26.7	1974	61.1	16.2	53	11.7	1982
10	64.3	18.3	69.7	20.8	79	26.1	1974	60.8	16.0	53	11.7	1982
11	65.7	18.4	69.6	20.9	80	26.7	1974	60.8	16.0	52	11.1	1982
12	65.3	18.6	69.6	20.9	80	26.7	1974	62.0	16.7	55	12.8	1953
13	66.3	19.0	70.1	21.2	80	26.7	1974	62.2	16.8	53	11.7	1977
14	65.6	18.7	69.4	20.8	81	27.2	1974	61.8	16.6	50	10.0	1977
15	65.5	18.6	69.3	20.7	74	23.3	1964*	61.8	16.6	54	12.2	1968*
16	6.1	18.9	69.5	20.8	76	24.4	1977	62.4	16.9	54	12.2	1965
17	6.1	18.9	70.1	21.2	75	23.9	1975*	62.1	16.7	56	13.3	1968
18	65.4	18.8	69.9	21.1	75	23.9	1975*	61.6	16.4	53	11.7	1956
19	65.7	18.7	70.1	21.2	76	24.4	1974	61.4	16.3	53	11.7	1958
20	65.6	18.7	69.4	20.8	76	24.4	1974*	61.8	16.6	52	11.1	1977
21	65.3	18.3	68.7	20.6	75	23.9	1971*	61.2	16.2	53	11.7	1977
22	65.4	18.6	69.3	20.7	76	24.4	1975	61.6	16.4	50	11.3	1972*
23	66.4	19.1	70.0	21.1	77	25.7	1969	62.7	17.1	56	13.3	1958
24	65.0	18.8	69.6	20.9	77	25.7	1975	62.1	16.7	53	11.7	1980
25	65.3	18.8	69.8	21.0	77	25.0	1979	61.8	16.6	54	12.2	1978
26	65.3	18.8	69.7	20.9	75	23.9	1973	61.8	16.6	54	12.2	1978*
27	66.1	18.9	70.1	21.2	76	24.4	1964	62.1	16.7	56	13.3	1980*
28	6.6	19.2	70.4	21.3	77	25.7	1979	62.8	17.1	51	10.6	1978
29	63.6	17.6	67.1	19.5	76	24.4	1974	60.1	15.6	54	12.2	1976*
30												
31												
Monthly	6.6	18.7	69.5	20.8	81	27.2	1974	61.7	16.5	50	10.0	1977

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

2701 MIDWAY ISLAND 1949-1982 MARC  
STATION STATION NAME YEARS MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP			
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME	
	°F	°C	°F	°C	°F	°C			°F	°C	F	°C
1	5.6	13.7	69.6	20.9	77	25.7	1973		61.5	16.4	52	11.1
2	5.3	13.5	69.2	20.7	79	26.1	1970		61.8	16.3	52	11.1
3	5.4	13.6	69.1	20.6	79	26.1	1973		61.7	16.5	53	11.7
4	5.7	13.7	69.5	20.8	79	26.1	1973		62.0	16.7	54	12.2
5	6.3	13.9	69.8	21.0	79	26.1	1976		62.3	16.8	57	13.9
6	6.7	13.3	70.5	21.4	79	26.1	1973*		62.9	17.2	58	14.4
7	6.1	13.9	67.6	20.9	77	26.1	1973		62.6	17.3	55	12.8
8	6.4	19.1	70.1	21.2	80	26.7	1971		62.6	17.0	55	12.8
9	6.4	19.1	70.1	21.2	79	25.6	1979*		62.6	17.0	57	13.9
10	6.1	18.9	70.2	21.2	74	23.3	1980*		61.9	16.6	55	12.8
11	6.7	19.3	70.4	21.3	76	24.4	1980*		63.1	17.3	53	11.7
12	6.5	19.2	70.1	21.2	77	25.7	1971		63.0	17.2	55	12.8
13	6.5	19.2	70.2	21.2	77	25.7	1979*		62.8	17.1	57	13.9
14	6.7	19.3	70.3	21.3	77	25.7	1973		63.0	17.2	55	12.8
15	67.3	19.4	70.8	21.6	79	26.1	1973		63.2	17.3	52	11.1
16	67.3	19.6	71.1	21.7	81	27.2	1975		63.2	17.3	56	13.3
17	67.3	19.2	70.4	21.3	79	26.1	1973		62.6	17.2	56	13.3
18	67.1	19.5	70.9	21.6	80	26.7	1973		63.3	17.4	56	13.3
19	67.5	19.2	70.4	21.3	79	25.6	1973		62.7	17.1	55	12.8
20	6.3	19.1	70.1	21.2	81	27.2	1973		62.6	17.0	57	13.9
21	6.5	19.2	70.1	21.2	77	25.7	1973*		62.9	17.2	57	13.9
22	6.7	19.3	70.5	21.4	77	25.7	1979*		62.9	17.2	52	11.1
23	67.3	19.6	70.9	21.6	79	25.6	1979		63.7	17.6	58	14.4
24	67.5	19.7	71.3	21.8	76	24.4	1980*		63.4	17.7	52	11.1
25	67.3	19.5	71.1	21.7	77	25.7	1980*		63.2	17.3	51	10.6
26	6.5	19.2	70.4	21.3	80	26.7	1973		62.9	17.2	51	10.6
27	67.1	19.5	70.9	21.6	80	26.7	1973		63.3	17.4	55	12.8
28	67.3	19.6	71.2	21.8	79	26.1	1973		63.4	17.4	56	13.3
29	67.4	19.7	71.2	21.8	77	25.7	1979		63.5	17.5	57	13.9
30	67.5	19.4	71.3	21.7	77	25.7	1973		63.1	17.3	57	13.9
31	66.5	19.4	70.6	21.4	79	25.6	1973		63.2	17.3	56	13.3
Monthly	6.6	19.2	70.4	21.3	81	27.2	1975*		62.8	17.1	51	10.6

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION 2701 MIDWAY ISLAND STATION NAME 1949-1982 YEARS MONTH APRIL

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE	
	°F	°C	°F	°C	°F	°C			°F	°C	°F	°C		
1	66.3	19.3	71.0	21.7	70	25.6	1973		62.7	17.1	55	12.8	1977*	
2	67.1	19.5	70.9	21.6	80	26.7	1979		63.4	17.4	56	13.3	1977	
3	67.1	19.5	70.9	21.6	81	27.2	1979		63.2	17.3	55	12.8	1977	
4	67.6	19.8	71.5	21.9	81	27.2	1979		63.6	17.6	57	13.9	1977	
5	67.8	19.9	71.8	22.1	72	26.1	1975*		63.8	17.7	59	15.0	1962	
6	67.3	19.6	71.0	21.7	77	25.0	1970*		63.7	17.6	56	13.3	1978	
7	66.3	19.3	70.2	21.2	81	27.2	1979		63.3	17.4	56	13.3	1975	
8	66.7	19.3	70.6	21.4	77	25.0	1949		62.9	17.2	57	13.9	1975	
9	67.3	19.6	71.1	21.7	77	25.0	1977		63.5	17.5	59	15.0	1972*	
10	67.0	19.6	71.1	21.7	77	25.0	1977		63.3	17.4	53	11.7	1961	
11	67.4	19.7	71.2	21.8	70	25.6	1973		63.7	17.6	53	11.7	1961	
12	67.3	19.9	71.6	22.0	79	26.1	1973		64.1	17.8	57	13.9	1961	
13	67.6	19.8	71.4	21.3	79	26.1	1973*		63.8	17.7	57	13.9	1979*	
14	67.3	19.9	71.8	22.1	70	26.1	1973		64.1	17.8	56	13.3	1961	
15	67.6	19.8	71.5	21.9	79	26.1	1973		63.7	17.6	55	12.8	1961	
16	67.4	19.7	71.0	21.7	79	26.1	1971		63.7	17.6	56	13.3	1961	
17	67.7	19.8	71.6	22.0	70	25.6	1981*		63.7	17.6	57	13.9	1961	
18	67.7	19.8	71.3	21.8	79	25.6	1981		64.1	17.8	59	15.0	1961	
19	67.3	19.9	71.6	22.0	79	26.1	1981		64.2	17.9	59	15.0	1957	
20	67.7	19.8	71.3	21.8	77	25.0	1971		64.1	17.8	60	15.6	1978	
21	67.8	19.9	71.4	21.9	70	25.6	1971*		64.2	17.9	61	16.1	1978	
22	67.8	20.3	72.3	22.4	70	25.6	1971*		64.7	18.2	60	15.6	1964*	
23	68.9	20.4	72.4	22.4	70	25.6	1981*		65.2	18.4	60	15.6	1962	
24	68.3	20.7	73.4	23.7	80	26.7	1981		65.3	18.5	57	13.9	1959	
25	69.3	20.7	72.8	22.7	75	25.6	1987*		65.7	18.7	60	15.6	1976*	
26	69.3	20.6	72.9	22.7	81	27.2	1973		65.3	18.5	59	15.0	1974	
27	69.3	20.7	73.2	22.9	79	26.1	1978		65.5	18.6	58	14.4	1974	
28	69.3	20.7	73.1	22.8	82	27.8	1970		65.3	18.5	59	15.0	1962	
29	69.4	20.6	72.9	22.7	80	26.7	1978		65.0	18.3	58	14.4	1955	
30	69.4	22.9	73.2	22.9	79	26.1	1971*		65.9	18.8	52	19.4	1978	
31														
Monthly	67.3	19.9	71.7	22.1	82	27.8	1970		64.1	17.8	53	11.7	1961	

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION 1201 STATION NAME LOWRY ISLAND YEARS 1940-1982 MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE		
	°F	°C	°F	°C	°F	°C		°F	°C	°F	°C			
1	70.3	21.1	73.7	23.2	81	27.2	1971	66.4	19.1	51	14.4	1978		
2	69.7	21.1	73.8	23.2	81	27.2	1973	65.9	18.8	55	12.8	1979		
3	69.7	20.8	73.1	22.8	81	27.2	1973	65.8	18.8	55	12.8	1973		
4	69.7	20.9	73.8	23.2	77	26.1	1980*	65.7	18.7	58	14.4	1975		
5	69.4	21.1	73.6	23.1	79	26.1	1973*	66.1	18.9	57	13.9	1979		
6	70.0	21.1	73.8	23.2	83	28.3	1979	66.1	18.9	61	16.1	1970*		
7	70.7	21.4	74.2	23.4	81	27.2	1978	66.9	19.4	61	16.1	1979*		
8	71.0	21.7	74.8	23.8	80	26.7	1978*	67.1	19.5	61	16.1	1961		
9	70.8	21.6	74.4	23.6	79	26.1	1973*	67.2	19.6	63	17.2	1979*		
10	70.0	21.4	74.4	23.6	80	26.7	1969	66.7	19.3	61	16.1	1961		
11	70.3	21.4	74.3	23.5	80	26.7	1980	66.8	19.3	61	16.1	1968		
12	70.3	21.4	74.3	23.5	84	28.9	1971	66.5	19.3	61	16.1	1970		
13	70.0	21.4	74.4	23.6	77	26.1	1980*	66.6	19.2	61	16.1	1970		
14	70.8	21.6	74.7	23.7	83	28.3	1979	66.8	19.3	62	16.7	1965		
15	71.2	21.8	75.4	24.1	83	28.3	1971	67.1	19.5	61	16.1	1965		
16	71.3	21.8	75.2	24.0	81	27.2	1975	67.4	19.7	61	16.1	1977		
17	71.7	21.9	75.4	24.1	81	27.2	1981*	67.7	19.8	63	17.2	1977		
18	71.5	21.9	75.3	24.1	82	27.8	1981	67.7	19.8	60	15.6	1966		
19	71.8	22.1	75.6	24.2	81	27.2	1981*	67.9	19.9	64	17.8	1979*		
20	71.9	22.2	75.7	24.3	83	28.3	1970	68.1	20.1	62	16.7	1966		
21	71.9	22.2	75.5	24.2	82	27.8	1981	68.3	20.2	62	16.7	1966		
22	72.3	22.3	76.0	24.4	83	28.3	1973	68.4	20.2	62	16.7	1978*		
23	72.6	22.6	76.4	24.7	83	28.3	1981*	68.9	20.5	63	17.2	1965		
24	72.4	22.4	76.1	24.5	83	28.3	1950	68.7	20.4	64	17.8	1965		
25	72.4	22.4	76.3	24.6	85	29.4	1971	68.5	20.3	64	17.8	1979*		
26	72.1	22.3	75.8	24.3	82	27.8	1973*	68.4	20.2	63	17.2	1978		
27	73.0	22.8	77.0	25.0	86	30.2	1970	68.9	20.5	65	18.3	1976*		
28	73.2	22.9	77.2	25.1	84	28.9	1950	69.1	20.6	64	17.8	1975		
29	73.3	22.9	77.2	25.1	84	28.9	1971	69.5	20.8	64	17.8	1953		
30	73.7	23.2	77.5	25.3	83	28.3	1971*	69.9	21.1	66	18.9	1967*		
31	73.7	23.2	77.7	25.4	82	27.8	1976*	69.6	20.9	66	18.9	1975*		
Monthly	71.4	21.9	75.2	24.0	86	30.0	1970	67.6	19.8	55	12.8	1978		

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



3

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

STATION 12041 STATION NAME IDWAY ISLAND YEARS 1949-1982 MONTH JUNE

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE	
	°F	°C	°F	°C	°F	°C			°F	°C	°F	°C		
1	74.1	23.3	78.1	25.6	84	28.9	1981		69.9	21.1	65	18.3	1962	
2	74.1	23.3	78.1	25.6	84	28.9	1975		70.4	21.3	62	16.7	1962	
3	74.1	23.3	78.1	25.6	85	29.4	1981		70.7	21.5	65	18.3	1968	
4	74.1	23.3	78.1	25.6	85	29.4	1981		72.5	21.4	65	18.3	1951	
5	74.1	23.3	78.1	25.6	83	28.3	1981		70.3	21.3	61	16.1	1978	
6	74.1	23.3	77.9	25.5	83	28.3	1981		70.6	21.4	63	17.2	1978	
7	74.1	23.3	78.1	25.6	84	28.9	1981		70.5	21.4	62	16.7	1976	
8	74.1	23.3	78.1	25.6	84	28.9	1981		70.5	21.4	63	17.2	1968	
9	75.1	24.5	79.6	26.4	85	29.4	1970		70.8	21.6	64	17.8	1968	
10	75.1	24.5	79.6	26.4	85	29.4	1981		71.2	21.8	65	18.3	1959	
11	75.1	24.5	79.7	26.5	85	29.4	1981		71.7	22.1	64	17.8	1964	
12	76.1	24.8	80.0	26.7	86	30.0	1981		72.1	22.3	65	18.3	1964	
13	76.1	24.8	80.1	26.7	84	28.9	1955		72.1	22.3	69	20.6	1962	
14	76.1	24.8	80.4	26.9	85	29.4	1970		72.5	22.5	69	20.6	1969	
15	76.1	24.8	79.9	26.6	85	29.4	1977		72.3	22.4	68	20.0	1969	
16	76.1	24.8	79.9	26.6	86	30.0	1981		72.2	22.3	68	20.0	1968	
17	76.1	24.8	79.8	26.6	85	29.4	1970		72.8	22.7	67	19.4	1971	
18	77.1	25.0	80.8	27.1	85	29.4	1981		73.2	22.9	67	19.4	1971	
19	77.1	25.0	80.9	27.2	85	29.4	1981		73.2	22.9	69	20.6	1951	
20	77.1	25.0	80.6	27.5	86	30.0	1981		73.5	23.1	68	20.0	1951	
21	77.1	25.0	81.2	27.3	85	29.4	1977		73.3	22.9	66	18.9	1958	
22	77.1	25.0	81.0	27.2	87	30.6	1970		73.3	22.9	67	19.4	1951	
23	77.1	25.0	80.9	27.3	86	30.0	1970		73.5	23.1	69	20.6	1969	
24	77.1	25.0	81.1	27.3	88	31.1	1970		73.4	23.0	69	20.6	1969	
25	77.1	25.0	81.1	27.2	86	30.0	1970		73.7	23.2	68	20.0	1969	
26	77.1	25.0	81.2	27.3	86	30.0	1980		73.7	23.2	68	20.0	1976	
27	77.1	25.0	81.9	27.2	86	30.0	1971		73.7	23.2	69	20.6	1969	
28	77.1	25.0	81.2	27.3	87	30.6	1970		73.6	23.1	69	20.6	1951	
29	77.1	25.0	81.1	27.3	85	29.4	1981		74.1	23.3	68	20.0	1951	
30	78.0	25.6	81.5	27.5	85	29.4	1981		74.5	23.6	70	21.1	1967	
31														
Monthly	76.1	24.8	80.0	26.7	88	31.1	1970		72.3	22.4	61	16.1	1978	

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



3

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

STATION  
2701STATION NAME  
MIDWAY ISLANDYEARS  
1949-1982MONTH  
JULY

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	77.7	25.4	81.6	27.6	86	30.0	1981	73.9	23.3	71	21.7	1972*
2	78.5	25.7	81.9	27.7	87	30.6	1981	74.5	23.6	69	20.6	1976
3	78.0	25.6	81.7	27.6	86	30.0	1980	74.3	23.5	70	21.1	1971*
4	78.1	25.6	82.0	27.8	88	31.1	1953	74.2	23.4	67	19.4	1967
5	78.2	25.7	81.9	27.7	86	30.0	1953	74.4	23.6	67	19.4	1966
6	78.1	25.6	81.8	27.7	86	30.0	1981*	74.4	23.6	71	21.7	1979*
7	78.4	25.8	82.2	27.8	86	30.0	1981*	74.6	23.7	71	21.7	1955
8	78.5	25.8	81.7	27.6	85	29.4	1981*	74.3	23.5	70	21.1	1967
9	78.4	25.8	82.2	27.8	86	30.0	1981*	74.7	23.7	68	20.6	1974
10	78.4	25.8	82.3	27.8	86	30.0	1980*	74.4	23.6	69	20.6	1962
11	77.9	25.5	81.9	27.7	86	30.0	1980	73.9	23.3	66	18.9	1976
12	78.3	25.7	82.1	27.8	86	30.0	1981*	74.6	23.7	72	22.2	1971*
13	78.2	25.7	82.2	27.8	86	30.0	1980	74.3	23.5	67	19.4	1971
14	78.5	25.8	82.3	27.8	86	30.0	1981*	74.7	23.7	68	20.0	1971
15	78.2	25.9	82.5	28.1	88	31.1	1975	74.7	23.7	71	21.7	1977*
16	78.3	25.7	82.2	27.8	87	30.6	1981	74.2	23.4	66	18.9	1977
17	77.9	25.4	81.9	27.7	87	30.6	1980*	73.6	23.1	63	17.2	1977
18	78.3	25.6	82.0	27.8	87	30.6	1978	74.2	23.4	68	20.0	1962
19	78.5	25.7	82.2	27.8	89	31.7	1978	74.3	23.5	68	20.0	1974
20	78.3	25.7	82.1	27.8	87	30.6	1978	74.2	23.5	71	21.7	1979
21	78.3	25.7	82.2	27.8	87	30.6	1980*	74.4	23.6	71	21.7	1949
22	78.3	25.7	82.5	28.1	90	32.2	1979	74.1	23.4	70	21.1	1977*
23	78.0	25.6	81.9	27.7	87	30.6	1978	74.1	23.4	69	20.6	1977
24	78.5	25.6	82.0	27.8	87	30.6	1981*	73.9	23.3	68	20.0	1977
25	78.5	25.7	82.3	27.8	87	30.6	1981*	74.2	23.4	68	20.0	1977
26	78.2	25.7	82.2	27.8	87	30.6	1980*	74.1	23.4	70	21.1	1964*
27	78.2	25.7	82.2	27.8	89	31.1	1981	74.2	23.4	70	21.1	1977*
28	78.2	25.6	81.8	27.7	87	30.6	1981*	74.2	23.4	70	21.1	1977*
29	78.2	25.6	82.1	27.8	88	31.1	1981	74.0	23.3	68	20.0	1956
30	78.1	25.6	82.3	27.8	88	31.1	1981*	73.8	23.2	67	19.4	1980*
31	78.1	25.6	82.2	27.8	89	31.1	1981	74.1	23.4	68	20.0	1966
Monthly	78.3	25.7	82.1	27.8	90	32.2	1979	74.3	23.5	63	17.2	1977

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



3

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION 2701 STATION NAME MIDWAY ISLAND YEARS 1949-1982 MONTH AUGUST

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	75.3	25.7	82.2	27.9	86	30.0	1981*	74.9	23.6	70	21.1	1963*
2	75.8	26.2	82.6	28.1	88	31.1	1978	75.0	23.9	71	21.7	1967*
3	75.3	25.8	82.3	27.9	88	31.1	1976	74.7	23.7	70	21.1	1967
4	75.7	25.9	82.6	28.1	86	30.0	1981*	74.9	23.8	70	21.1	1951
5	75.3	25.8	82.5	28.1	86	30.0	1981*	74.6	23.7	69	20.6	1956
6	75.4	25.9	82.4	28.0	86	30.0	1981*	74.8	23.8	70	21.1	1971
7	75.7	25.9	82.6	28.1	87	30.6	1978	74.9	23.8	69	20.6	1955
8	75.8	26.0	82.7	28.2	88	31.1	1978	74.9	23.8	68	20.0	1977
9	75.3	26.2	83.1	28.4	87	30.6	1981*	75.3	24.1	71	21.7	1977
10	75.3	25.8	82.4	28.7	87	30.6	1981*	74.6	23.7	69	20.6	197
11	75.5	25.8	82.5	28.1	86	30.0	1981*	74.5	23.6	68	20.0	1964
12	75.9	26.1	82.8	28.2	87	30.6	1978	74.9	23.8	69	20.6	1973
13	75.8	26.0	82.8	28.2	89	31.7	1979*	74.9	23.8	68	20.0	1957
14	75.3	26.3	83.1	28.4	88	31.1	1979	75.5	24.2	70	21.1	1973*
15	75.9	26.1	82.9	28.3	88	31.1	1979	74.9	23.8	70	21.1	1974*
16	75.8	26.0	83.5	28.3	89	31.7	1979	74.5	23.6	70	21.1	1979*
17	75.3	26.2	83.3	28.5	89	31.7	1978	75.2	24.0	71	21.1	196
18	75.3	26.3	83.1	28.4	88	31.1	1979	75.4	24.1	71	21.7	1976
19	74.1	26.2	83.0	28.3	88	31.1	1980	75.1	23.9	70	21.1	1966*
20	75.3	26.2	83.3	28.5	87	30.6	1968	75.1	23.7	69	20.6	1976
21	75.5	26.1	82.7	28.2	87	30.6	1979	75.1	23.9	70	21.1	1976
22	75.5	26.3	83.5	28.6	88	31.1	1979	75.1	23.9	64	17.8	1966
23	75.4	26.3	83.4	28.6	88	31.1	1979*	75.3	24.1	68	20.0	1975
24	75.6	26.4	83.7	28.7	90	32.2	1979	75.5	24.2	69	20.6	1969
25	75.3	26.3	83.3	27.5	90	32.2	1979	75.3	24.1	68	20.0	1975
26	75.3	26.2	83.2	28.4	87	30.6	1980*	75.1	23.9	70	21.1	1969
27	74.7	26.5	83.7	28.7	87	30.6	1980*	75.6	24.2	71	21.7	1974
28	75.7	26.5	83.6	28.7	87	30.6	1980*	75.8	24.3	72	22.2	1979*
29	75.4	26.4	83.4	28.6	88	31.1	1980*	75.7	24.3	68	20.0	1979
30	75.5	26.4	83.2	28.4	89	31.7	1980*	75.7	24.3	72	22.2	1979*
31	75.3	26.2	83.3	28.5	88	31.1	1979	75.1	23.9	68	20.0	1981
Monthly	75.0	26.1	83.0	28.3	90	32.2	1979	75.1	23.9	64	17.8	1966

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C			°F	°C	°F	°C	
1	72.2	26.3	83.4	29.6	89	31.7	1979		75.2	24.2	72	22.2	1977*
2	74.7	26.5	83.9	28.8	88	31.1	1962		75.4	24.1	68	20.0	1977
3	72.8	26.6	83.9	28.8	88	31.1	1979*		75.7	24.3	72	22.2	1977*
4	72.7	26.8	83.3	28.5	87	30.6	1981*		75.7	24.3	71	21.7	1976*
5	72.9	26.6	83.9	28.8	87	30.6	1983*		75.9	24.4	67	19.4	1973
6	72.2	26.8	84.0	28.9	90	32.2	1979		75.0	23.9	66	18.9	1973
7	72.2	26.8	83.6	28.7	92	33.3	1979		75.4	24.1	71	21.7	1966
8	74.1	26.2	83.3	28.5	89	31.7	1979		74.9	23.8	70	21.1	1976*
9	74.2	26.2	83.2	28.4	87	30.6	1981		75.1	23.9	70	21.1	1966
10	74.5	26.4	83.7	28.7	87	30.6	1981*		75.4	24.1	70	21.1	1977*
11	74.5	26.4	83.5	28.6	90	32.2	1979		75.6	24.2	72	22.2	1975
12	74.4	26.3	83.2	28.4	88	31.1	1979*		75.6	24.2	70	21.1	1975
13	72.3	26.2	83.1	28.4	88	31.1	1979		75.3	24.1	70	21.1	1975
14	74.2	26.2	83.1	28.4	87	30.6	1979*		75.3	24.1	70	21.1	1975*
15	74.1	26.2	82.7	28.2	87	30.6	1979*		75.4	24.1	70	21.1	1977*
16	74.2	25.2	83.2	28.4	88	31.1	1979		75.1	23.9	69	20.0	1972
17	74.2	25.9	83.0	28.3	87	30.6	1979*		74.2	23.4	69	20.6	1972
18	74.7	25.9	82.7	28.2	86	30.0	1981*		74.6	23.7	69	20.6	1972
19	74.6	25.9	82.8	28.2	88	31.1	1966		74.3	23.5	70	21.1	1977*
20	74.6	25.9	82.5	28.1	88	31.1	1979*		74.6	23.7	69	20.0	1977
21	74.5	25.8	83.0	28.3	89	31.7	1979		74.1	23.4	64	17.8	1977
22	74.9	26.1	83.1	28.4	89	31.7	1966		74.7	23.7	68	20.0	1977
23	74.9	26.1	82.9	28.3	88	31.1	1978*		74.9	23.8	68	20.0	1964
24	74.0	26.1	82.8	28.2	88	31.1	1978		75.2	24.0	71	21.7	1973*
25	74.1	25.6	81.9	27.7	86	30.0	1978*		74.2	23.4	69	20.6	1955
26	74.2	25.7	82.3	27.7	89	31.7	1978		74.1	23.4	67	19.4	1955
27	74.1	25.6	82.0	27.8	86	30.0	1980		74.2	23.4	68	20.0	1955
28	77.8	25.4	81.9	27.7	86	30.0	1980*		73.7	23.2	68	20.0	1955
29	77.8	25.4	81.8	27.7	87	30.6	1980*		73.8	23.2	68	20.0	1977
30	77.1	25.1	80.8	27.1	86	30.0	1967		73.4	23.0	68	20.0	1967
31													
Monthly	74.9	26.1	83.0	28.3	92	33.3	1979		74.9	23.8	64	17.8	1977

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

01  
STATION

MIDWAY ISLAND  
STATION NAME

1949-1982  
YEARS

OCTOBER  
MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE	
	°F	°C	°F	°C	°F	°C			°F	°C	°F	°C		
1	77.7	25.3	81.2	27.3	89	31.1	1976		73.8	23.2	64	17.8	1977	
2	77.3	25.2	81.3	27.4	88	31.1	1976		73.2	22.9	67	19.4	1957	
3	77.3	25.1	81.3	27.2	89	31.7	1979		73.3	22.7	69	20.6	1968	
4	77.0	25.0	81.0	27.2	89	31.1	1980		73.3	22.8	65	18.3	1973	
5	76.5	24.9	81.1	27.3	89	31.7	1980		72.7	22.6	65	18.3	1973	
6	76.8	24.9	80.8	27.1	86	30.0	1980		72.8	22.7	66	18.9	1973	
7	76.4	24.9	81.1	27.3	86	30.0	1978		72.6	22.6	64	17.8	1961	
8	76.8	24.9	80.9	27.2	86	30.0	1969		72.7	22.6	62	16.7	1961	
9	76.5	24.7	80.1	26.7	86	30.0	1979		73.0	22.8	66	18.9	1973	
10	76.3	24.6	80.0	26.7	86	30.0	1979		72.5	22.5	65	18.3	1973	
11	76.3	24.6	80.0	26.7	87	30.6	1980		72.1	22.3	62	16.7	1956	
12	76.3	24.5	79.9	26.6	88	31.1	1979		72.2	22.3	61	16.1	1971	
13	76.4	24.7	80.3	26.8	87	30.6	1979		72.4	22.4	64	17.8	1971	
14	76.3	24.6	80.1	26.7	86	30.0	1979		72.6	22.6	64	17.8	1971	
15	76.3	24.6	80.0	26.7	86	30.0	1979		72.7	22.6	67	19.4	1971	
16	75.5	24.2	79.8	26.3	86	30.0	1979		71.7	22.1	65	18.3	1952	
17	75.5	24.2	79.3	26.3	87	30.6	1979		71.6	22.0	66	18.9	1976	
18	75.3	24.0	79.4	26.3	87	29.8	1978		72.4	22.0	68	20.0	1969	
19	75.7	24.3	79.2	26.2	85	29.8	1980		72.2	22.3	66	18.9	1976	
20	75.8	24.3	79.6	26.4	85	29.4	1982		71.9	22.2	64	17.8	1974	
21	75.7	24.3	79.5	26.4	86	30.0	1979		71.9	22.2	62	16.7	1974	
22	75.6	24.2	79.2	26.2	86	30.0	1979		71.9	22.2	67	19.4	1972	
23	75.5	24.2	79.3	26.3	85	29.8	1979		71.8	22.1	65	18.3	1981	
24	75.2	24.0	79.4	26.3	85	29.4	1979		71.1	21.7	52	15.0	1981	
25	75.4	24.1	79.2	26.2	84	28.9	1979		71.5	21.9	65	18.3	1972	
26	75.0	23.9	78.6	25.9	83	28.3	1950		71.5	21.9	65	18.3	1957	
27	74.4	23.6	78.1	25.6	85	29.4	1981		70.8	21.6	60	15.6	1957	
28	74.3	23.6	77.5	25.3	85	29.4	1980		70.8	21.4	66	18.9	1973	
29	74.5	23.3	77.8	25.8	85	29.4	1980		70.2	21.2	63	17.2	1961	
30	74.3	23.4	77.9	25.5	85	29.4	1980		70.4	21.3	62	16.7	1961	
31	74.3	23.5	78.5	25.8	87	30.6	1974		70.6	21.4	63	17.2	1961	
Monthly	75.3	24.4	79.7	26.5	89	31.7	1980		72.1	22.3	57	15.0	1981	

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C		°F	°C	°F	°C	
1	74.4	23.6	76.2	25.7	84	29.9	1974	70.6	21.4	65	18.3	1977
2	74.2	23.4	78.3	25.7	83	28.3	1980*	70.1	21.2	65	18.3	1977
3	73.9	23.3	77.6	25.3	83	28.3	1980*	70.1	21.2	63	17.2	1981
4	74.5	23.6	78.5	25.8	84	28.9	1980*	70.5	21.4	65	18.3	1969
5	74.3	23.5	77.9	25.5	83	28.3	1963	70.7	21.5	65	18.3	1966
6	73.7	23.2	77.3	25.2	84	28.9	1974	70.1	21.2	64	17.8	1968
7	73.7	23.1	77.1	25.1	87	30.6	1974	70.0	21.1	61	16.1	1969
8	73.2	22.9	76.7	24.8	86	30.0	1974	69.7	20.9	62	16.7	1950
9	73.4	23.0	76.7	24.8	82	27.8	1974*	70.1	21.2	60	15.6	1950
10	73.2	22.9	76.9	24.7	84	28.9	1963	69.6	20.9	62	16.7	1957
11	73.1	22.8	76.6	24.5	84	28.9	1982	69.6	20.9	63	17.2	1959
12	73.3	22.9	77.0	25.3	84	28.9	1974	69.6	20.9	62	16.7	1957
13	72.6	22.6	76.7	24.8	84	28.9	1974	68.6	20.3	60	15.6	1973
14	72.1	22.6	76.1	24.5	82	27.8	1979*	69.1	20.6	62	16.7	1976
15	72.3	22.4	75.8	24.3	82	27.8	1974	68.9	20.5	60	15.6	1976
16	73.0	22.8	76.8	24.9	87	30.6	1974	69.1	20.6	63	17.2	1976*
17	72.6	22.6	76.2	24.6	82	27.8	1979	68.9	20.5	63	17.2	1976
18	72.3	22.4	76.3	24.6	82	27.8	1954	68.3	20.2	62	16.7	1976
19	72.0	22.2	75.9	24.4	81	27.2	1982	68.1	20.1	63	17.2	1968*
20	71.8	22.1	75.4	24.1	81	27.2	1979	68.1	20.1	61	16.1	1968
21	71.1	21.7	75.0	23.9	81	27.2	1979	67.3	19.6	58	14.4	1968
22	71.3	21.8	74.9	23.8	77	26.1	1978*	67.8	19.9	62	16.7	1980*
23	71.2	21.9	74.8	23.9	80	26.7	1981*	67.6	19.8	59	15.0	1969
24	71.7	21.7	74.5	23.6	87	26.7	1980*	67.9	19.7	60	15.6	1964
25	71.1	21.7	74.4	23.6	82	27.8	1981	67.8	19.9	59	15.0	1966
26	70.5	21.4	73.9	23.3	8	26.7	1982	67.0	19.4	55	12.8	1968
27	70.7	21.5	74.6	23.7	8	26.7	1963	66.8	19.3	50	10.4	1961
28	70.5	21.4	73.7	23.2	80	26.7	1982	67.2	19.6	59	15.0	1954
29	69.9	21.1	73.7	23.2	81	27.2	1981	66.2	19.0	55	12.8	1977
30	69.7	20.9	73.3	22.9	80	26.7	1974	66.1	18.9	56	13.3	1979*
31												
Monthly	72.4	22.4	76.2	24.4	87	30.6	1974	68.7	20.4	59	12.8	1977*

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



3

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION: DIRTY STATION NAME: MIDWAY ISLAND YEARS: 1943-1982 MONTH: DECEMBER

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C		°F	°C	°F	°C	
1	66.7	21.1	73.5	23.1	81	26.7	1976	66.4	19.1	54	14.4	1977
2	67.7	20.9	73.3	22.9	79	26.1	1981	66.1	18.9	57	13.9	1977
3	67.7	20.8	73.3	22.9	80	26.7	1981	65.8	18.8	56	14.4	1981
4	67.9	21.1	73.5	23.1	81	27.2	1981	66.2	19.1	59	15.0	1963*
5	68.6	22.9	73.1	22.8	79	26.1	1974	66.1	18.9	59	15.0	1956
6	69.3	21.7	73.3	22.3	79	26.1	1951	65.2	18.4	55	12.8	1971
7	69.3	20.7	72.9	22.7	81	26.7	1974	65.6	18.7	56	13.3	1982
8	69.3	20.3	72.7	22.2	81	26.7	1974	65.7	18.3	55	12.8	1971*
9	69.5	20.3	72.1	22.3	81	26.7	1981	64.8	18.2	55	12.8	1963
10	69.5	20.8	73.0	23.1	80	26.7	1973*	65.7	18.7	57	13.9	1982
11	69.7	20.9	73.7	23.2	79	26.1	1981*	65.7	18.7	56	13.3	1971
12	69.3	20.3	72.6	22.6	79	26.1	1974	64.6	18.1	55	12.8	1971
13	69.7	20.2	72.1	22.3	79	26.1	1969	64.5	18.1	56	13.3	1981
14	69.7	20.4	72.0	22.3	79	25.6	1981	65.0	18.3	61	15.6	1976
15	69.7	20.2	72.1	22.3	80	26.7	1981	64.6	18.1	53	11.7	1967
16	69.4	20.2	72.0	22.3	80	26.7	1981*	64.3	17.9	58	14.4	1972
17	67.6	19.8	71.3	21.2	81	26.7	1974	63.7	17.7	52	11.1	1972
18	69.7	21.2	72.1	22.3	79	26.1	1976*	64.0	18.0	58	14.4	1964
19	69.9	20.4	72.6	22.6	72	25.6	1982	65.3	18.3	61	16.1	1981*
20	69.4	20.2	72.2	22.3	79	25.6	1975*	64.5	18.1	58	14.4	1979
21	69.1	20.1	71.7	22.1	79	26.1	1974	64.6	18.1	55	14.4	1965
22	69.1	20.0	72.0	22.2	80	26.7	1970	64.7	17.8	55	12.8	1971
23	69.1	20.1	72.0	22.2	79	25.6	1978	64.3	17.9	56	13.3	1973*
24	69.1	20.1	72.1	22.3	77	25.7	1973*	64.3	17.9	56	13.3	1965
25	67.9	19.9	71.8	22.1	79	25.6	1975*	63.9	17.7	57	13.9	1977*
26	67.4	19.7	71.1	21.7	78	25.6	1973	63.7	17.6	54	12.2	1977
27	66.9	19.4	70.9	21.6	78	25.6	1952	63.7	17.2	51	10.6	1977
28	67.6	19.8	71.3	21.8	76	24.4	1976*	63.9	17.7	56	13.3	1982
29	67.6	19.8	71.9	21.9	77	25.7	1952	63.9	17.7	59	15.0	1975*
30	67.1	19.5	70.7	21.5	76	24.4	1978*	63.9	17.5	57	13.9	1977*
31	66.7	19.3	70.6	21.4	76	24.4	1978*	62.7	17.1	54	12.2	1977
Monthly	68.5	20.3	72.2	22.3	81	27.2	1981	64.7	18.2	51	10.6	1977

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

12701

OFFWAY ISLAND

42-87

STATION

STATION NAME

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
49		75	77	79	79	83	83	84	85	84	81	78	
50		75	75	78	84				85	85	81	77	
51	76	75	74	77	79	82	84	85	85	84	82	79	85
52	74	75	75	78	79	84	85	85	87	87	81	79	97
53	76	76	77	78	81	84	88	85	85	82	80	77	88
54	75	73	75	77	78	84	84	86	84	84	82		
55	74	76	73	76	81	85	85	83	85	82	79	77	85
56	73	72	73	75	77	83	84	85	85	82	81	74	85
57	72	73	73	76	79	85	84	84	84	78	78	75	85
58	74	73	75	76	79	80	81	83	88	81	78	75	88
59	70	73	77	73	79	82	83	89	85	83	78	77	87
60	76	73	74	78	81	85	85	86	86	81	75	76	85
61	74	75	75	74	80	82	83	84	85	83	80	76	85
62	73	72	74	73	80	82	82	87	88	82	80	77	88
63	73	73	74	75	80	82	83	85	87	84	84	77	87
64	77	76	76	74	80	83	82	85	88	85	81	77	88
65	72	74	73	74	79	81	82	84	85	84	81	78	85
66	75	72	75	77	76	81	84	86	89	84	78	76	80
67	78	75	72	75	80	83	83	85	88	86	82	77	88
68		75	75	76	82	85	85	87	86	82	81	76	
69	71	77	74	79	83	83	88	85	85	86	81	79	88
70	75	75	79	82	86	88	85	85	87	82	82	80	88
71	75	76	80	79	85	82	87	87		85	80	77	
72	73	74	71	74	79	84	83	83	85	83	81	77	85
73	75	76	81	81	83	84	87	87	87	84	82	80	89
74	77	81	77	76	80	84	86	87	87	87	87		
75	80	77	81	79	81	85	88	86	86	85	84	79	83
76	76	74	79	75	82	83	85	88	88	88	80	80	88
77	76	76	76	80	81	85	84	86	87	83	85	79	87
78	74	75	77	80	81		89	89	89	86	80	78	
MEAN													
S. D.													
TOTAL OBS.													

SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## EXTREME VALUES

4. MIN. TEMPERATURE  
(FROM DAILY OBSERVATIONS)

5233

SECRET

40-27

STATION

STATION NAME

YEARS

IN THE DEGREES FAHRENHEIT

[illegible]

## SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

19701      MIDWAY ISLAND      41-92  
STATION      STATION NAME      YEARS

WHOLE DEGREES FAHRENHEIT  
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
73	77												MAX TEMP DAYS
74	74					81							MAX TEMP DAYS
75	73					7							MAX TEMP DAYS
76	74											76	MAX TEMP DAYS
77	73											70	MAX TEMP DAYS
78												80	MAX TEMP DAYS
79						85						70	MAX TEMP DAYS
80						87		90					MAX TEMP DAYS
81								90					MAX TEMP DAYS
82	75												MAX TEMP DAYS
83	72			75				86	87	65			MAX TEMP DAYS
84				13	9	1	0	1	3	13			MAX TEMP DAYS
85													
86													
87													
88													
89													
90													
91													
92													
93													
94													
95													
96													
97													
98													
99													
00													
MEAN													
S D													
TOTAL OBS													

SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

2701

HIWAY ISLAND

49-87

STATION

STATION NAME

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
49		60	60	63	64	69	70	71	73	69	65	61	
50		60	58	58	62				71	69	64	59	
1	58	59	52	59	63	65	70	70	70	68	65	58	57
2	57	60	61	60	67	69	69	70	70	65	64	63	57
3	59	55	58	58	63	67	70	72	70	69	68	58	55
4	57	55	57	60	63	67	67	71	70	67	59		
5	57	57	59	58	67	70	69	69	67	66	59	58	57
56	55	53	59	61	65	69	68	69	70	62	60	58	57
7	55	55	57	58	62	64	72	66	72	60	62	59	55
8	56	53	57	60	64	66	69	72	72	67	61	56	57
9	55	57	56	57	60	65	69	73	72	64	60	60	55
10	59	54	58	60	63	66	71	70	68	66	63	60	56
11	57	58	57	53	60	68	71	71	73	62	66	60	58
12	54	57	57	59	61	62	68	73	72	68	67	61	54
13	56	56	56	60	65	71	70	70	71	68	62	55	57
14	60	59	57	55	60	63	70	68	68	68	60	56	55
15	52	54	57	57	61	68	70	72	68	69	62	56	57
16	58	56	60	59	60	65	67	64	70	66	63	60	56
17	59	54	52	61	62	66	67	70	71	66	63	53	57
18		54	52	60	61	63	72	74	70	67	55	58	
19	56	56	57	61	67	67	70	69	69	65	62	60	58
20	57	56	60	61	59	69	67	60	70	69	61	59	58
21	53	59	58	64	64	67	67	68		61	57	55	
22	53	57	54	58	62	66	72	73	68	65	67	52	57
23	52	54	61	61	65	70	69	69	66	65	60	56	57
24	57	61	52	57	64	61	68	70	69	62	68		
25	52	54	51	56	64	68	71	67	68	66	60	58	57
26	51	51	57	58	64	62	66	69	70	66	60	60	51
27	51	60	51	55	61	68	63	69	64	64	55	51	57
28	54	51	53	56	55		71	71	70	66	62	60	
MEAN													
S. D.													
TOTAL OBS.													

SMOS



## EXTREME VALUES

MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

22701  
STATIC

# MIDWAY ISLAND

47-97

STATION NAME

**YEARS**

WHOLE DEGREES FAHRENHEIT

[illegible]

## SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

12701

MIDWAY ISLAND

49-82

STATION

STATION NAME

YEARS

WHOLE DEGREES FAHRENHEIT  
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
49	62 4												MIN TEMP DAYS
50	58 30					75 2							MIN TEMP DAYS
54												61 29	MIN TEMP DAYS
62	54 30												MIN TEMP DAYS
74												59 30	MIN TEMP DAYS
75						70 29							MIN TEMP DAYS
80								71 70					MIN TEMP DAYS
81	52 32												MIN TEMP DAYS
82		52 27		60 13	0	0	0	60 1	74 0	70 13			MIN TEMP DAYS
MEAN													
S. D.													
TOTAL OBS.													

SMOS



NAVWEASERVCOM



3

## PSYCHROMETRIC SUMMARY

22701  
STATION

## MIDWAY ISLAND

STATION NAME

73-82

YEARS

**FEB**

**MONTH**

PAGE 1

**HOURS ( L S Y )**

[illegible]



0770 2 07 53921

## MONT

HOUSE (L S T)

[illegible]



1028 2097-54321  
3

22701  
STATION

MIDWAY ISLAND

73-82

APR  
MONT

PAGE 1  
HOURS (L

[illegible]



## PSYCHROMETRIC SUMMARY

**NOTES**

PAGE 1  
HOURS 11

[illegible]

NAVWEASERVCOM



3

## PSYCHROMETRIC SUMMARY

22721

MIDWAY ISLAND

73-82

JUN

STATION

STATION NAME

**YEARS**

**MONTH**

PAGE 1

**NOUVEAU**

[illegible]



3

## PSYCHROMETRIC SUMMARY

22771  
STATION

MIDWAY ISLAND

STATION NAME

73-82

**YEARS**

JUL

**MONTH**

PAGE 1

OURS (LST)

[illegible]

NAVWEASERVCOM



428 2097 54321

STATION NAME

**YEARS**

MONTH

HOURS 1 L S T

[illegible]



**3**

**MONTH**

GE 1

[illegible]



3

227.1  
STATION

MIDWAY ISLAND

73-42

ACT

PAGE 1

HOURS (LST)

[illegible]



1255-1991

## PSYCHROMETRIC SUMMARY

227-1

MIDWAY ISLAND

73-22

NO Y

STATION

STATION NAME

YEARS

MONTI

PAGE 1

HOURS 16.57

[illegible]



3

## PSYCHROMETRIC SUMMARY

227-1

MIDWAY ISLAND

73-35

950

STATION

STATION NAME

YEARS

**MONTY**

PAGE 1

MOUSE 1 9 7

[illegible]



## PSYCHROMETRIC SUMMARY

2271  
STATION

MIDWAY ISLAND

STATION NAME

73-82

**YEARS**

ALL

## MONITORING

PAGE 1  
NUMBER ( ) 1 1

[illegible]



# MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

22701

MIDWAY ISLAND

73-82

STATION		STATION NAME												YEARS	
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
01	MEAN	64.8	64.2	65.4	66.2	69.4	74.0	77.0	77.6	77.2	74.9	72.0	67.9	71.0	
	S. D.	4.121	4.093	3.821	3.176	3.023	2.567	1.950	2.056	2.453	2.771	3.548	4.026	5.861	
	TOTAL OBS	289	250	291	300	309	300	310	309	300	310	300	308	3576	
04	MEAN	64.2	64.1	65.1	65.5	69.9	74.1	76.1	76.4	76.1	73.9	71.5	68.0	70.5	
	S. D.	4.289	4.680	4.081	3.377	2.626	2.565	2.190	2.173	2.633	3.126	3.877	4.102	5.772	
	TOTAL OBS	196	163	186	181	185	180	186	190	183	202	181	196	2227	
07	MEAN	64.5	64.0	64.9	65.8	70.0	74.6	77.2	77.4	76.8	74.5	71.7	67.8	70.9	
	S. D.	4.054	4.101	3.801	3.092	3.105	2.672	2.026	2.056	2.408	2.853	3.680	3.901	5.974	
	TOTAL OBS	310	282	310	300	310	299	310	309	300	310	300	308	3648	
10	MEAN	66.8	66.6	68.5	69.9	73.9	78.5	81.2	81.6	81.2	78.7	74.8	70.4	74.4	
	S. D.	3.946	3.884	4.032	3.601	3.099	2.806	2.481	2.556	2.868	3.361	3.974	3.824	6.499	
	TOTAL OBS	310	282	310	300	310	300	310	309	300	310	300	308	3649	
13	MEAN	68.6	68.7	70.5	72.1	75.6	80.2	82.9	83.7	82.9	80.3	76.3	72.1	76.2	
	S. D.	3.960	4.198	4.222	3.684	3.054	2.917	2.612	2.367	2.860	3.347	4.083	4.047	6.486	
	TOTAL OBS	310	282	310	300	310	300	310	309	300	310	300	307	3648	
16	MEAN	68.2	68.5	70.0	71.4	75.1	79.9	82.8	83.4	82.4	79.3	75.4	71.3	75.7	
	S. D.	4.264	4.332	4.251	3.782	3.310	2.932	2.361	2.348	2.763	3.403	4.067	3.881	6.527	
	TOTAL OBS	290	282	310	300	310	300	310	309	300	309	300	308	3618	
19	MEAN	65.2	65.4	66.7	68.0	71.9	76.9	79.9	80.2	78.7	75.9	72.5	68.6	72.6	
	S. D.	3.999	4.079	3.877	3.467	3.382	2.988	2.355	1.957	2.448	2.809	3.554	4.047	6.351	
	TOTAL OBS	280	279	310	300	310	299	310	307	300	308	300	308	3611	
22	MEAN	64.6	64.8	66.0	66.5	71.1	75.4	77.3	77.7	77.0	74.7	72.2	68.4	71.4	
	S. D.	4.240	4.576	4.085	3.363	2.689	2.793	2.103	1.971	2.600	2.872	3.922	4.214	5.923	
	TOTAL OBS	196	161	186	181	186	180	186	191	183	200	181	195	2226	
ALL HOURS	MEAN	66.0	66.0	67.3	68.4	72.3	76.9	79.6	80.0	79.3	76.7	73.5	69.4	73.0	
	S. D.	4.408	4.587	4.548	4.251	3.869	3.698	3.423	3.454	3.664	3.887	4.236	4.297	6.585	
	TOTAL OBS	2171	1981	2213	2162	2230	2158	2232	2233	2166	2259	2162	2236	26203	

NAVWEASERVCOM



# MEANS AND STANDARD DEVIATIONS

WET-FULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

22771 MIDWAY ISLAND

73-82

STATION		STATION NAME												YEARS	
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
01	MEAN S. D. TOTAL OBS	60.0 5.131 289	59.8 5.433 250	61.6 5.159 291	61.9 4.429 300	65.3 4.327 309	70.3 3.583 300	72.4 2.083 310	73.0 1.684 309	72.4 2.874 300	69.9 3.831 310	66.3 5.164 299	62.1 5.191 308	66.4 6.455 3575	
04	MEAN S. D. TOTAL OBS	60.0 5.205 196	60.2 5.462 163	61.5 5.117 186	61.6 4.653 181	66.5 3.892 186	71.1 2.740 180	71.8 2.325 186	72.6 2.073 190	71.9 3.075 183	69.8 3.869 202	66.5 5.183 180	62.8 5.251 194	66.4 6.347 2227	
07	MEAN S. D. TOTAL OBS	59.7 5.062 310	59.3 5.389 282	61.0 5.086 310	61.6 4.345 300	65.6 4.432 310	70.6 3.594 299	72.4 2.086 310	73.0 1.811 309	72.2 2.784 300	69.5 3.998 310	66.1 5.185 300	62.1 5.234 308	66.1 6.592 3648	
10	MEAN S. D. TOTAL OBS	61.0 4.968 310	60.7 5.139 282	62.8 5.007 310	63.4 4.398 300	67.1 4.155 310	71.6 3.345 300	73.5 2.128 310	74.3 1.892 309	73.8 2.743 300	71.0 3.951 310	67.5 5.161 300	63.4 5.004 308	67.5 6.451 3649	
13	MEAN S. D. TOTAL OBS	61.4 4.850 310	61.6 5.021 282	63.5 4.855 310	64.0 4.379 300	67.6 3.992 310	72.1 3.183 300	73.8 2.105 310	74.6 1.896 309	73.9 2.739 300	71.5 3.667 310	68.0 4.919 300	63.9 4.900 307	68.0 6.270 3648	
16	MEAN S. D. TOTAL OBS	61.2 4.927 280	61.3 5.078 282	63.2 4.755 310	63.8 4.287 300	67.3 4.039 310	72.0 3.187 300	73.7 2.142 310	74.3 1.955 309	73.6 2.783 300	71.0 3.759 309	67.5 4.950 300	63.5 4.722 308	67.8 6.259 3618	
19	MEAN S. D. TOTAL OBS	59.9 4.921 280	60.0 5.167 279	61.9 4.932 310	62.5 4.380 300	66.2 4.192 310	71.1 3.297 299	72.8 2.091 310	73.3 1.929 307	72.4 2.939 300	69.8 3.795 308	66.4 5.004 300	62.4 5.186 308	66.6 6.419 3611	
22	MEAN S. D. TOTAL OBS	60.2 4.927 196	60.7 5.390 161	61.9 5.033 186	62.1 4.616 181	67.0 3.885 186	71.7 2.807 180	72.2 2.209 186	72.9 2.011 191	72.2 2.952 183	69.9 3.868 200	66.9 5.082 181	62.9 5.230 195	66.8 6.301 2226	
ALL HOURS	MEAN S. D. TOTAL OBS	60.5 5.025 2171	60.5 5.283 1981	62.2 5.050 2213	62.7 4.504 2162	66.6 4.211 2231	71.3 3.334 2158	72.9 2.232 2232	73.6 2.041 2233	72.9 2.941 2166	70.4 3.904 2259	66.9 5.113 2160	62.9 5.115 2236	67.0 6.431 26202	

NAVWEASERVCOM



# MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

22701 MIDWAY ISLAND

73-82

STATION		STATION NAME												YEARS
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN	56.5	56.4	58.8	58.9	62.7	68.3	70.1	70.8	70.1	67.1	62.7	57.9	63.5
	S. D.	7.056	7.462	7.159	6.214	6.121	4.708	2.782	2.570	3.850	5.300	7.220	7.314	7.953
	TOTAL OBS	289	250	291	300	309	300	310	309	300	310	299	308	3575
04	MEAN	56.9	57.4	58.8	58.8	64.5	69.6	69.7	70.8	69.8	67.4	63.4	59.2	63.9
	S. D.	6.911	6.999	6.913	6.501	5.627	3.342	3.105	2.738	4.048	5.082	6.911	7.235	7.702
	TOTAL OBS	196	163	186	181	186	180	186	190	183	202	180	194	2227
77	MEAN	56.1	55.7	58.2	58.7	63.0	68.5	70.1	71.1	70.0	66.8	62.6	58.0	63.3
	S. D.	6.912	7.493	7.006	6.208	6.325	4.783	2.824	2.484	3.697	5.668	7.219	7.418	8.126
	TOTAL OBS	310	282	310	300	310	299	310	309	300	310	300	308	3648
11	MEAN	56.9	56.3	58.9	59.0	63.0	68.2	69.9	71.0	70.3	67.0	63.1	58.6	63.5
	S. D.	7.017	7.403	7.070	6.269	6.146	4.645	2.989	2.641	3.733	5.587	7.346	7.248	7.944
	TOTAL OBS	310	282	310	300	310	300	310	309	300	310	300	308	3649
17	MEAN	56.1	56.4	58.7	58.7	62.9	68.1	69.5	70.5	69.7	66.9	63.1	58.5	63.3
	S. D.	6.975	7.183	6.923	6.334	6.030	4.538	3.042	2.665	4.029	5.303	7.080	7.039	7.819
	TOTAL OBS	310	282	310	300	310	300	310	309	300	310	300	307	3648
19	MEAN	56.2	56.0	58.5	58.8	62.7	68.0	69.4	70.1	69.5	66.7	62.8	58.2	63.2
	S. D.	6.928	7.132	6.748	6.060	6.126	4.419	2.980	2.751	4.093	5.341	6.933	6.866	7.719
	TOTAL OBS	280	282	310	300	310	300	310	309	300	309	300	308	3618
19	MEAN	55.9	55.9	58.5	58.8	62.6	68.0	69.5	70.1	69.4	66.5	62.6	58.1	63.1
	S. D.	6.843	7.240	6.787	5.935	5.944	4.375	2.909	2.716	4.033	5.327	6.976	7.214	7.767
	TOTAL OBS	280	279	310	300	310	299	310	307	300	308	300	308	3611
72	MEAN	57.0	57.8	59.0	59.1	64.5	69.8	69.7	70.7	69.8	67.3	63.8	59.1	64.0
	S. D.	6.925	7.017	6.896	6.303	5.607	3.338	3.097	2.786	3.924	5.275	6.797	7.075	7.581
	TOTAL OBS	196	161	186	181	186	180	186	191	183	200	181	195	2226
ALL HOURS	MEAN	56.4	56.4	58.7	58.8	63.1	68.4	69.7	70.6	69.8	66.9	62.9	58.4	63.4
	S. D.	6.905	7.279	6.934	6.202	6.061	4.430	2.962	2.679	3.928	5.379	7.082	7.192	7.852
	TOTAL OBS	2171	1981	2213	2162	2231	2158	2232	2233	2166	2259	2160	2236	26202

NAVWEASERVCOM



## RELATIVE HUMIDITY

JAT:

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN.	01	100.0	100.0	100.0	100.0	97.6	86.5	59.5	38.8	12.1	75.6	289
	04	100.0	100.0	100.0	100.0	100.0	91.3	64.8	44.4	21.4	78.0	196
	07	100.0	100.0	100.0	100.0	97.7	85.2	60.3	38.1	12.9	75.4	310
	10	100.0	100.0	100.0	100.0	95.5	77.7	49.7	25.2	3.4	71.2	310
	13	100.0	100.0	100.0	99.4	88.7	64.8	32.3	13.9	3.5	65.4	310
	16	100.0	100.0	100.0	99.3	93.6	67.5	33.2	16.1	3.9	66.8	280
	19	100.0	100.0	100.0	100.0	96.1	82.5	55.0	31.8	7.1	72.8	280
	22	100.0	100.0	100.0	100.0	99.5	92.3	66.6	39.8	11.2	77.1	196
TOTALS		100.0	100.0	100.0	99.6	96.1	81.0	52.7	31.0	10.1	72.8	2171

**OCEANAV-SMOS**



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## RELATIVE HUMIDITY

12701 MIDWAY ISLAND

73-82

FEB

STATION

STATION NAME

PERIOD

MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	01	100.0	100.0	100.0	100.0	99.6	86.8	64.0	43.2	18.8	76.2	250
	04	100.0	100.0	100.0	100.0	100.0	93.9	71.8	49.7	20.9	79.6	163
	07	100.0	100.0	100.0	100.0	98.2	93.7	60.6	40.8	15.2	75.6	282
	10	100.0	100.0	100.0	100.0	95.4	71.6	48.6	27.0	7.8	70.5	282
	13	100.0	100.0	100.0	99.6	87.9	63.8	34.0	18.1	4.6	66.2	292
	16	100.0	100.0	100.0	99.6	89.4	62.2	32.3	14.2	2.5	65.5	292
	19	100.0	100.0	100.0	100.0	97.5	78.1	55.2	30.5	7.5	72.4	279
	22	100.0	100.0	100.0	100.0	100.0	95.0	70.2	52.2	16.8	78.9	161
TOTALS		100.0	100.0	100.0	99.9	96.0	79.5	54.6	34.5	11.8	73.2	1981

OCEANAV-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## RELATIVE HUMIDITY

02701 MIDWAY ISLAND

73-92

MAR

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	01	100.0	100.0	100.0	99.3	97.0	91.1	74.9	56.4	20.6	80.1	291
	04	100.0	100.0	100.0	98.4	98.4	94.6	81.7	58.1	22.0	81.2	186
	07	100.0	100.0	100.0	99.7	98.7	91.9	72.3	55.8	19.4	80.0	310
	10	100.0	100.0	100.0	99.4	96.1	79.7	54.9	28.7	9.4	72.4	310
	13	100.0	100.0	100.0	99.0	90.3	67.1	41.0	17.7	4.2	67.3	310
	16	100.0	100.0	100.0	98.7	91.3	70.0	41.9	20.3	4.5	68.1	310
	19	100.0	100.0	100.0	99.4	97.7	90.0	63.5	38.1	11.0	75.8	310
	22	100.0	100.0	100.0	100.0	96.2	92.5	76.9	55.4	16.1	79.4	186
TOTALS		100.0	100.0	100.0	99.2	95.2	84.6	63.4	41.3	13.4	75.5	2213

OCEANAV-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## RELATIVE HUMIDITY

02701 MIDWAY ISLAND

73-82

APR

STATION

STATION NAME

PERIOD

MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	01	100.0	100.0	100.0	100.0	99.7	92.7	69.0	49.3	14.0	73.4	300
	06	100.0	100.0	100.0	100.0	98.3	92.3	76.2	54.1	16.0	79.7	181
	07	100.0	100.0	100.0	100.0	99.7	90.1	70.3	53.7	16.3	78.9	300
	10	100.0	100.0	100.0	100.0	96.0	71.3	46.7	20.3	4.3	69.3	300
	17	100.0	100.0	100.0	100.0	86.7	59.3	26.7	10.0	3.0	63.7	300
	18	100.0	100.0	100.0	100.0	92.0	63.7	29.0	10.3	2.3	65.2	300
	19	100.0	100.0	100.0	100.0	99.7	88.7	57.7	24.7	5.0	73.1	300
	27	100.0	100.0	100.0	100.0	99.8	91.7	72.4	49.1	12.7	77.8	181
TOTALS		100.0	100.0	100.0	100.0	86.4	81.5	55.9	33.8	9.2	73.3	2162

OCEANAV-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

00701 ALCRAY ISLAND

73-80

MAY

STATION

STATION NAME

PERIOD

MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	01	100.0	100.0	100.0	99.4	98.4	93.5	79.0	59.9	15.9	80.3	300
	04	100.0	100.0	100.0	98.9	97.8	96.8	89.7	71.9	22.2	83.7	185
	07	100.0	100.0	100.0	99.7	98.4	91.6	76.1	54.2	18.1	79.4	310
	10	100.0	100.0	100.0	99.0	93.9	75.8	51.9	23.2	3.2	69.9	310
	13	100.0	100.0	99.7	98.4	89.0	66.1	32.3	12.3	1.0	65.6	310
	16	100.0	100.0	99.7	98.4	91.3	67.1	35.5	13.5	1.9	66.6	310
	19	100.0	100.0	99.7	99.4	98.4	87.1	62.0	29.4	5.2	73.4	310
	22	100.0	100.0	99.5	98.4	97.8	97.3	84.4	58.1	15.1	80.5	186
TOTALS		100.0	100.0	99.8	99.0	95.6	94.4	64.1	40.2	10.3	74.9	2230

OCEANAV-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

22701

MIDWAY ISLAND

73-82

JUN

STATION

STATION NAME

PERIOD

MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	01	100.0	100.0	100.0	100.0	100.0	97.3	91.7	67.7	19.0	83.0	300
	02	100.0	100.0	100.0	100.0	100.0	100.0	97.8	82.8	26.7	86.3	180
	03	100.0	100.0	100.0	100.0	99.7	97.3	89.0	62.5	15.1	81.9	299
	04	100.0	100.0	100.0	100.0	98.3	88.3	56.7	16.0	2.7	71.5	300
	05	100.0	100.0	100.0	100.0	95.0	79.7	29.3	9.7	2.0	61.2	300
	06	100.0	100.0	100.0	100.0	97.0	80.2	34.0	9.0	2.3	67.7	300
	07	100.0	100.0	100.0	100.0	99.7	93.6	69.2	23.7	4.3	74.6	299
	08	100.0	100.0	100.0	100.0	100.0	100.0	97.2	62.8	16.7	83.3	180
TOTALS		100.0	100.0	100.0	100.0	98.7	92.1	70.6	41.8	11.1	76.9	2158

OCEANAV-SMOS







3

## 3

73-22

495

STATION

STATION NAME

## REPORT

— **NOTES**

## 3

3

3



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## RELATIVE HUMIDITY

12701 MIDWAY ISLAND

73-32

SEP

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	01	100.0	100.0	100.0	100.0	100.0	97.7	54.7	45.7	10.3	79.3	300
	06	100.0	100.0	100.0	100.0	100.0	99.5	84.2	55.7	12.0	81.5	184
	17	100.0	100.0	100.0	100.0	100.0	97.7	87.0	45.7	12.3	80.1	300
	18	100.0	100.0	100.0	100.0	99.0	86.0	46.3	11.0	3.0	70.1	300
	19	100.0	100.0	100.0	99.3	96.0	73.0	22.7	7.3	2.3	65.3	300
	20	100.0	100.0	100.0	99.7	95.7	75.0	26.3	7.3	1.7	65.7	300
	21	100.0	100.0	100.0	100.0	99.3	93.0	66.0	20.7	2.7	73.7	300
	22	100.0	100.0	100.0	100.0	100.0	95.6	84.7	45.9	9.8	79.2	183
TOTALS		100.0	100.0	100.0	99.9	98.9	89.7	62.7	29.9	7.5	74.4	2166

OCEANAV-SMOS



3

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## RELATIVE HUMIDITY

10701 MIDWAY ISLAND

73-82

OCT

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	01	100.0	100.0	100.0	100.0	98.1	91.0	74.2	44.2	11.9	77.4	310
	04	100.0	100.0	100.0	100.0	99.0	95.5	84.2	56.9	17.3	80.9	202
	07	100.0	100.0	100.0	100.0	97.7	91.3	75.2	46.1	12.9	77.8	310
	10	100.0	100.0	100.0	99.4	93.9	74.6	44.2	13.5	.6	68.2	310
	13	100.0	100.0	100.0	99.4	92.3	63.2	24.2	7.7	2.3	64.5	310
	16	100.0	100.0	100.0	99.7	94.8	68.3	30.4	11.0	2.9	66.2	309
	19	100.0	100.0	100.0	100.0	98.7	88.0	64.0	26.6	4.9	73.5	308
	22	100.0	100.0	100.0	100.0	99.5	94.5	77.0	47.0	11.0	78.5	200
TOTALS		100.0	100.0	100.0	99.8	96.8	83.3	59.2	31.6	8.0	73.4	2259

OCEANAV-SMOS



## RELATIVE HUMIDITY

NOV

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	01	100.0	100.0	100.0	100.0	95.3	80.9	60.9	36.5	7.7	73.7	299
	04	100.0	100.0	100.0	99.4	97.8	86.7	68.9	45.6	10.0	76.3	180
	07	100.0	100.0	100.0	100.0	97.3	80.7	62.3	38.0	7.3	74.0	300
	10	100.0	100.0	100.0	100.0	90.0	65.3	44.7	21.7	5.7	68.2	300
	13	100.0	100.0	100.0	98.7	86.7	57.7	34.3	14.3	2.7	65.0	300
	16	100.0	100.0	100.0	99.0	89.3	63.7	35.3	13.3	3.3	66.0	300
	19	100.0	100.0	100.0	100.0	96.7	79.3	55.7	28.3	4.7	72.0	300
	22	100.0	100.0	100.0	100.0	98.9	89.0	66.9	39.2	9.9	75.7	181
TOTALS		100.0	100.0	100.0	99.6	94.0	75.4	53.6	29.6	6.4	71.4	2160

**OCEANAV-SMOS**



3

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## RELATIVE HUMIDITY

22701

MIDWAY ISLAND

73-82

DEC

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	01	100.0	100.0	100.0	100.0	95.5	77.3	52.6	29.2	6.2	71.4	378
	04	100.0	100.0	100.0	100.0	97.4	81.4	62.4	38.1	10.3	74.4	174
	07	100.0	100.0	100.0	99.7	95.1	73.4	53.9	31.2	7.5	71.9	308
	10	100.0	100.0	100.0	99.7	91.2	65.6	41.2	18.8	5.8	67.5	378
	13	100.0	100.0	100.0	99.3	84.4	53.7	30.6	10.7	2.6	63.4	307
	16	100.0	100.0	100.0	99.7	87.0	57.5	31.5	12.7	2.9	64.5	308
	19	100.0	100.0	100.0	100.0	95.1	77.3	47.1	24.7	4.9	70.2	308
	22	100.0	100.0	100.0	100.0	97.4	83.1	56.9	34.9	7.2	73.4	195
TOTALS		100.0	100.0	100.0	99.6	92.9	71.2	47.0	25.0	5.8	69.6	2236

OCEANAV-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## RELATIVE HUMIDITY

42701 MIDWAY ISLAND

73-82

ALL

STATION

STATION NAME

PERIOD

MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	99.8	96.1	81.0	52.7	31.0	10.1	72.8	2171
FEB		100.0	100.0	100.0	99.9	96.0	79.5	54.6	34.5	11.6	73.2	1981
MAR		100.0	100.0	100.0	99.2	95.8	84.6	63.4	41.3	13.4	75.5	2213
APR		100.0	100.0	100.0	100.0	96.4	81.5	55.5	33.8	9.2	73.3	2162
MAY		100.0	100.0	99.8	99.0	95.6	84.4	64.0	40.2	17.3	74.9	2230
JUN		100.0	100.0	100.0	100.0	98.7	92.1	70.6	41.8	11.1	76.9	2158
JUL		100.0	100.0	100.0	100.0	99.1	90.1	59.0	26.4	5.0	73.4	2232
AUG		100.0	100.0	100.0	100.0	99.5	92.0	63.0	30.0	5.8	74.5	2233
SEP		100.0	100.0	100.0	99.9	98.8	89.7	62.7	29.9	7.5	74.4	2166
OCT		100.0	100.0	100.0	99.8	96.8	83.3	59.2	31.6	8.0	73.4	2259
NOV		100.0	100.0	100.0	99.6	94.0	75.4	53.6	29.6	6.4	71.4	2160
DEC		100.0	100.0	100.0	99.8	92.9	71.2	47.0	25.0	5.8	69.6	2236
TOTALS		100.0	100.0	100.0	99.8	96.6	83.7	58.8	32.9	8.7	73.6	26201

OCEANAV-SMOS



3

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

STATION

MIDWAY ISLAND

STATION NAME

JANUARY 1973-DECEMBER 1982

YEARS

JANUARY

MONTH

HOURS

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81					71.4	28.6				14	.6
72 TO 76	1.4	.9	6.3	6.3	21.7	48.4	12.2	1.4	1.4	221	10.2
67 TO 71	4.5	1.4	6.7	6.9	16.2	25.3	23.5	12.5	3.0	735	33.9
62 TO 66	13.6	6.7	6.7	5.8	6.5	7.9	20.5	28.8	3.4	376	17.4
57 TO 61	33.6	12.6	4.3	1.0	2.3	1.7	8.6	24.9	11.0	301	13.9
52 TO 56	30.4	17.4					8.7	26.1	17.4	23	1.1
47 TO 51								100.0		1	.0
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-63 TO -59											
TOTALS	12.1	5.2	6.2	5.5	11.1	17.1	18.8	19.8	4.2	2171	100.0

NAVWEASERVCOM



3

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

12701  
STATIONMIDWAY ISLAND  
STATION NAMEJANUARY 1973-DECEMBER 1982  
YEARFEBRUARY  
MONTH

HOURS

## WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	OF TOTAL
122°											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81				4.5	27.3	68.2				22	1.1
72 TO 76		5.8	9.6	15.4	25.0	32.7	9.1	1.4	1.0	208	10.5
67 TO 71	4.3	7.8	9.8	11.0	21.2	20.6	17.3	6.9	1.2	65	33.1
62 TO 66	12.3	11.5	9.6	7.3	6.6	8.9	20.1	20.7	1.4	773	39.0
57 TO 61	26.4	22.5	11.1	4.3	3.2	1.8	5.4	15.7	9.6	280	14.1
52 TO 56	46.3	24.4	14.6				2.4	4.9	7.3	41	2.1
47 TO 51	50.0								50.0	2	.1
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-63 TO -59											
TOTALS	11.0	11.4	9.8	8.6	13.0	14.7	15.1	12.4	1.4	1981	100.0

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

22701  
STATION

MIDWAY ISLAND

STATION NAME

JANUARY 1973-DECEMBER 1982

YEARS

MARCH

MONTH

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81	2.1		2.1	14.6	31.3	43.8	6.3			48	2.2
72 TO 76	.5	2.2	15.6	21.0	30.3	24.0	3.3	1.4	1.6	366	16.5
67 TO 71	4.8	7.8	23.8	18.5	19.8	11.9	8.0	3.4	2.0	858	38.8
62 TO 66	13.6	24.0	27.8	8.6	5.0	4.6	5.3	7.6	3.5	720	32.5
57 TO 61	35.5	23.5	12.5	2.0			4.5	14.5	7.5	200	9.0
52 TO 56	61.9	14.3					9.5	4.8	9.5	21	.9
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	10.2	13.5	22.0	14.0	15.0	11.0	6.0	5.4	2.9	2213	100.0

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

22701

MIDWAY ISLAND

JANUARY 1973-DECEMBER 1982

APRIL

STATION

STATION NAME

YEARS

MONTH

NO. OF DAYS

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81		6.8	8.5	6.8	32.2	30.5	8.5	6.8		59	2.7
72 TO 76	2.4	7.5	34.3	21.7	17.6	8.6	3.4	2.8	1.7	466	21.6
67 TO 71	5.7	17.6	41.8	17.7	8.0	2.8	2.0	2.4	2.1	400	41.6
62 TO 66	12.1	30.6	46.7	3.3	1.4	.2	1.0	2.4	2.4	630	29.1
57 TO 61	27.4	50.9	18.9					.9	1.9	106	4.9
52 TO 56		100.0								1	.0
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	7.7	20.6	39.5	13.2	8.4	3.9	2.1	2.5	2.0	2162	100.0

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

22701

MIDWAY ISLAND

JANUARY 1973-DECEMBER 1982

MAY

STATION

STATION NAME

YEARS

MONTH

HO. RE. DATA

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86				18.2	36.4	9.1	36.4			11	.5
77 TO 81	5.9	4.9	21.7	23.4	17.8	11.5	7.9	6.3	.7	304	13.6
72 TO 76	5.4	12.5	28.6	20.7	14.3	8.5	3.6	4.3	2.0	992	44.5
67 TO 71	4.9	25.0	41.2	12.1	5.2	1.6	1.3	2.5	6.2	769	34.5
62 TO 66	7.7	46.5	32.4	3.5	.7			.7	8.5	142	6.4
57 TO 61	18.2	63.6							18.2	11	.5
52 TO 56		100.0								1	.0
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	5.5	18.2	32.0	16.9	10.8	5.9	3.3	3.7	3.8	2230	100.0

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

22701  
STATION

WIDWAY ISLAND

STATION NAME

JANUARY 1973-DECEMBER 1982

YEARS

JUNE

MONTH

NO. OF OBS.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86	4.2	6.1	27.9	14.5	11.8	15.3	17.2	2.3	.8	262	12.1
77 TO 81	1.8	8.7	32.4	14.3	14.0	12.7	10.5	3.3	2.4	884	41.0
72 TO 76	2.9	9.3	37.8	14.7	8.9	8.7	7.3	3.0	7.3	862	39.9
67 TO 71	11.2	25.2	32.9	2.1	2.1	5.6	7.7	4.9	8.4	143	6.6
62 TO 66		71.4	14.3					14.3		7	.3
57 TO 61											
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	3.2	9.9	34.0	13.6	10.9	10.9	8.8	3.2	4.5	2158	100.0

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

12701

MIDWAY ISLAND

JANUARY 1973-DECEMBER 1982

JULY

STATION

STATION NAME

YEARS

MONTH

NO. OF

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91		11.1	27.8	33.3	16.7	5.6			5.6	1A	.A
82 TO 86	1.1	4.5	42.4	29.5	12.8	6.0	1.7	.7	1.3	712	31.9
77 TO 81	1.7	6.4	48.0	24.9	8.6	5.9	1.0	.6	2.8	1776	46.2
72 TO 76	1.0	16.0	57.6	10.2	5.1	1.9	.7	1.0	6.5	413	18.5
67 TO 71		7.7	53.8	15.4	7.7				15.4	13	.6
62 TO 66											
57 TO 61											
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LOWER											
TOTALS	1.3	7.6	67.9	23.7	9.4	5.2	1.2	.7	3.1	2232	100.0

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

2271  
STATION

WIDWAY ISLAND  
STATION NAME

JANUARY 1973-DECEMBER 1982  
YEARS

AUGUST  
MONTH

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91		8.8	41.2	23.5	11.8	8.8	2.9	2.9		34	1.5
82 TO 86	1.2	5.6	37.4	30.3	14.8	4.4	2.4	2.8	.8	745	33.4
77 TO 81	2.2	8.0	40.1	25.9	13.2	3.6	1.7	1.5	3.7	1097	49.1
72 TO 76	5.1	15.4	33.9	14.2	10.8	3.7	2.0	1.7	13.1	351	15.7
67 TO 71	16.7		33.3		16.7	16.7			16.7	6	.3
62 TO 66											
57 TO 61											
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
59 A. LWP											
TOTALS	2.3	8.4	33.2	25.4	13.3	4.0	2.0	2.0	4.2	2233	100.0

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

22701  
STATION

MIDWAY ISLAND  
STATION NAME

JANUARY 1973-DECEMBER 1982  
YEARS

SEPTEMBER  
MONTH

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91		4.0	36.0	36.0	8.0	8.0		8.0		25	1.2
82 TO 86	4.1	12.0	41.6	16.3	7.9	5.8	5.1	4.6	2.6	564	27.0
77 TO 81	4.0	14.7	42.3	13.2	8.5	3.7	5.3	2.3	6.0	1058	48.8
72 TO 76	4.7	19.7	37.8	8.9	6.4	1.9	3.4	3.6	13.6	471	21.7
67 TO 71	18.5	14.8	7.4	11.1	3.7		3.7		40.7	27	1.2
62 TO 66				100.0						1	.0
57 TO 61											
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LVR											
TOTALS	4.3	15.0	40.6	13.4	7.8	3.9	4.8	3.2	7.1	2164	107.0

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

32701

MIDWAY ISLAND

JANUARY 1973-DECEMBER 1982

OCTOBER

STATION

STATION NAME

YEAR

MONTH

NO. OF DAYS

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91		9.1	9.1	9.1	9.1	9.1	27.3	18.2	9.1	11	.5
82 TO 86	5.9	6.6	23.5	12.9	19.1	11.4	12.1	3.7	4.8	272	12.0
77 TO 81	6.2	14.5	27.3	14.1	15.4	7.8	6.1	4.1	4.7	958	38.0
72 TO 76	6.3	24.9	35.6	8.8	6.4	2.7	2.3	2.4	10.5	952	42.1
67 TO 71	17.5	41.6	16.2	1.3	1.9	1.3	4.5	1.9	13.6	154	6.4
62 TO 66	9.1	27.3	9.1						54.5	11	.5
57 TO 61	100.0									1	.0
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LVP											
TOTALS	7.0	19.8	29.4	10.6	11.0	5.6	5.2	3.2	8.0	2759	100.0

NAVWEASERVCOM



3

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

22701

MIDWAY ISLAND

JANUARY 1973-DECEMBER 1982

NOVEMBER

STATION

STATION NAME

YEARS

MONTH

NO. OF

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86	5.6	2.8	16.7	25.0	25.0	8.3	16.7			36	1.7
77 TO 81	2.7	4.6	29.1	21.0	16.4	10.8	10.2	3.1	2.1	481	22.2
72 TO 76	8.1	12.8	31.2	12.4	6.7	8.0	9.6	5.5	5.7	1008	46.6
67 TO 71	21.5	28.4	20.2	1.6	1.4	3.5	6.5	9.4	7.6	511	23.6
62 TO 66	24.1	35.7	6.3	.9		.9	2.7	17.9	11.6	112	5.2
57 TO 61	78.6	7.1					7.1	7.1		14	.6
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	11.3	15.6	26.4	11.3	7.5	7.2	9.7	6.4	5.5	2162	100.0

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

22711  
STATION

MIDWAY ISLAND  
STATION NAME

JANUARY 1973-DECEMBER 1982  
YEARS

DECEMBER  
MONTH

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122°											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81	1.1	2.2		4.3	19.4	47.3	23.7	2.2		93	4.2
72 TO 76	4.0	1.9	11.3	11.2	16.2	23.0	25.5	5.2	1.8	679	30.4
67 TO 71	11.7	9.7	18.9	7.2	8.6	8.9	14.5	16.2	4.2	883	39.5
62 TO 66	23.3	24.9	16.1	3.4	3.2	1.6	5.2	11.3	10.6	502	22.5
57 TO 61	21.6	23.0	6.8		1.4	1.4	4.1	16.2	25.7	74	3.3
52 TO 56	20.0	20.0							60.0	5	.2
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	11.7	10.9	14.8	7.2	9.9	12.9	15.7	11.2	5.5	2236	100.0

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

22701  
STATION

MIDWAY ISLAND  
STATION NAME

JANUARY 1973-DECEMBER 1982  
YEARS

ALL  
MONTH

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91		8.0	33.0	27.3	11.4	8.0	4.5	5.7	2.3	88	.3
82 TO 86	2.7	6.9	36.9	23.5	13.1	7.1	5.6	2.6	1.7	2622	10.0
77 TO 81	3.1	9.3	35.7	18.8	13.1	8.5	5.6	2.5	3.5	5994	22.9
72 TO 76	4.4	12.2	30.4	14.0	12.0	10.8	7.0	3.3	5.8	6989	26.7
67 TO 71	8.0	14.4	24.1	10.9	11.2	10.0	10.0	7.2	4.2	5654	21.6
62 TO 66	14.4	20.0	20.2	5.6	4.5	4.8	10.8	14.9	4.8	3774	14.4
57 TO 61	30.9	23.0	9.5	1.9	1.7	1.1	5.5	16.4	9.9	987	3.8
52 TO 56	43.5	21.7	6.5				5.4	9.8	13.0	92	.4
47 TO 51	33.3							33.3	33.3	3	.0
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LOWER											
TOTALS	7.3	13.0	24.6	13.7	10.7	8.5	7.7	6.1	4.5	26213	100.0

NAVWEASERVCOM



# MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

2701 MIDWAY ISLAND

73-82

STATION		STATION NAME												YEARS	
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
01	MEAN	29.895	30.013	30.094	30.173	30.122	30.082	30.099	30.053	30.030	30.053	30.054	30.023	30.059	
	S. D.	.204	.180	.148	.112	.097	.101	.074	.081	.102	.103	.155	.198	.150	
	TOTAL OBS	289	250	291	300	309	300	310	309	300	310	300	308	3576	
02	MEAN	29.883	30.013	30.076	30.149	30.072	30.023	30.087	30.037	30.014	30.024	30.034	30.011	30.034	
	S. D.	.194	.173	.148	.102	.105	.104	.067	.078	.102	.107	.137	.167	.143	
	TOTAL OBS	196	163	186	181	185	180	186	190	183	202	181	194	2227	
03	MEAN	29.887	29.988	30.089	30.160	30.113	30.074	30.090	30.041	30.020	30.047	30.043	30.011	30.047	
	S. D.	.206	.182	.147	.111	.099	.104	.078	.082	.102	.103	.153	.195	.152	
	TOTAL OBS	310	282	310	300	310	299	310	309	300	310	300	308	3648	
1	MEAN	29.927	30.025	30.125	30.191	30.135	30.094	30.110	30.064	30.051	30.082	30.079	30.051	30.078	
	S. D.	.207	.181	.147	.112	.099	.102	.077	.082	.099	.102	.154	.197	.150	
	TOTAL OBS	310	282	310	300	310	299	310	309	300	310	300	308	3648	
17	MEAN	29.890	30.000	30.101	30.170	30.122	30.085	30.099	30.050	30.026	30.047	30.037	30.009	30.053	
	S. D.	.205	.180	.148	.110	.097	.101	.075	.080	.100	.103	.154	.196	.152	
	TOTAL OBS	310	282	310	300	310	300	310	309	300	310	300	307	3648	
18	MEAN	29.867	29.964	30.061	30.134	30.089	30.054	30.072	30.020	29.992	30.018	30.012	29.981	30.024	
	S. D.	.207	.178	.149	.108	.097	.100	.073	.080	.098	.102	.154	.196	.150	
	TOTAL OBS	280	282	310	300	310	300	310	309	300	309	300	308	3618	
19	MEAN	29.896	29.989	30.083	30.148	30.097	30.061	30.074	30.028	30.009	30.044	30.042	30.011	30.041	
	S. D.	.207	.177	.150	.108	.097	.102	.073	.079	.098	.103	.153	.198	.147	
	TOTAL OBS	260	279	310	300	310	299	310	307	300	308	300	308	3611	
22	MEAN	29.921	30.056	30.125	30.200	30.114	30.064	30.122	30.075	30.054	30.072	30.072	30.049	30.076	
	S. D.	.188	.171	.150	.104	.100	.100	.066	.077	.103	.107	.137	.169	.143	
	TOTAL OBS	196	161	186	181	186	180	186	191	183	200	181	195	2226	
ALL HOURS	MEAN	29.896	30.002	30.094	30.165	30.110	30.070	30.093	30.049	30.024	30.044	30.046	30.017	30.051	
	S. D.	.204	.180	.149	.111	.100	.103	.075	.082	.102	.105	.152	.193	.150	
	TOTAL OBS	2171	1981	2213	2162	2230	2157	2232	2233	2166	2259	2162	2236	26202	

NAYWEASERVCOM



END

DATE  
FILMED

7-85